

### Department of the Interior



Bureau of Land Management - Alaska

# 2005 ALASKA State Aviation Plan

### **A COMMITMENT TO AVIATION SAFETY**



### **ALASKA AVIATION OFFICE**

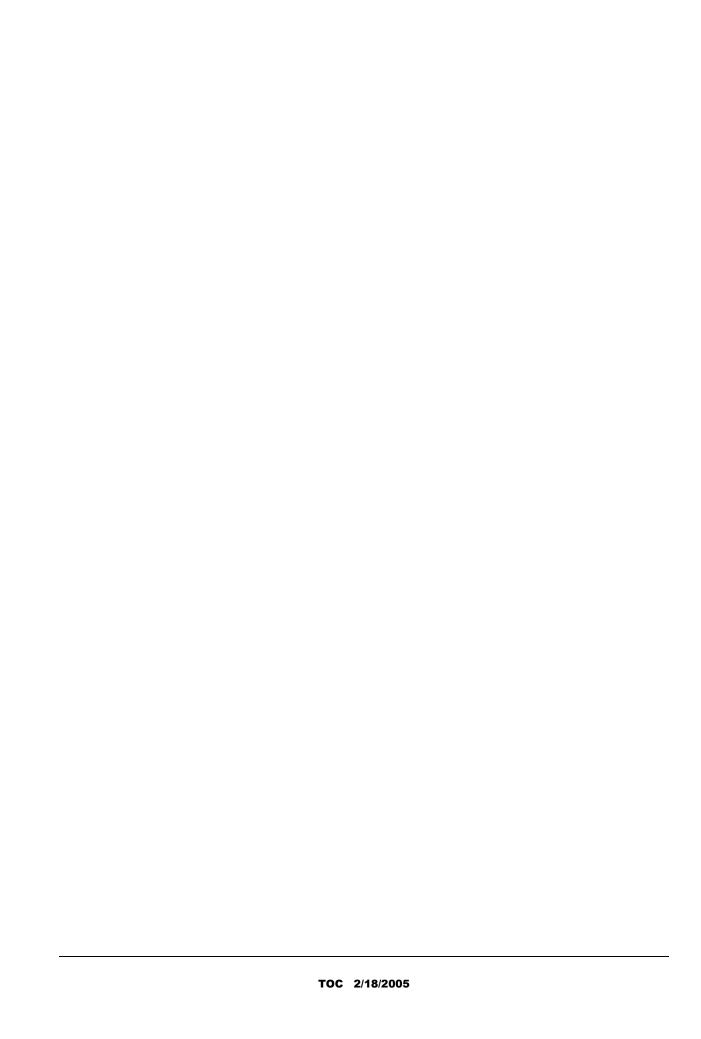
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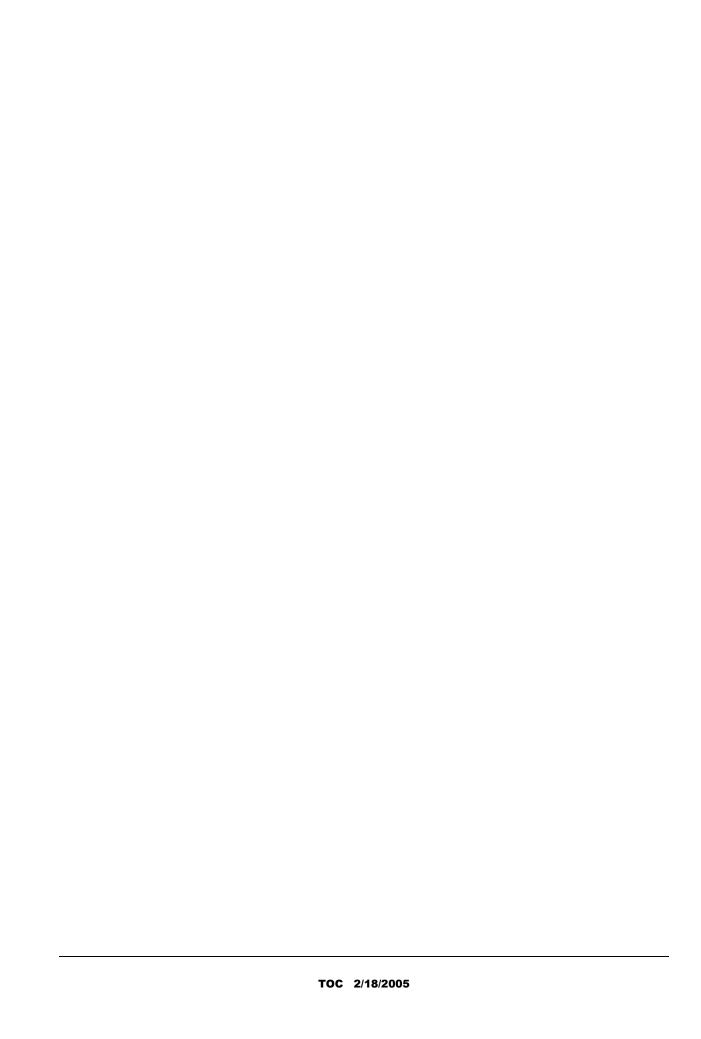
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# 1.0 BUREAU OF LAND MANAGEMENT ALASKA AVIATION PLAN

#### 1.1 PURPOSE

This plan sets forth policy, procedures and guidance to implement the Aviation Management Program for BLM Alaska. The purpose is to clarify and standardize aviation management procedures and operations for BLM employees in all Alaska Field Offices, Alaska State Office, Joint Pipeline Office, Juneau Mineral Information Center, and Alaska Fire Service

#### 1.2 MISSION STATEMENT

The Office of the State Aviation Manager is responsible for providing safe, cost-effective aviation support to the BLM, Alaska and its interagency partners. We will be guided in accomplishing this mission by rigorous adherence to Departmental aviation policy and safe aviation practices, sound mission planning, risk management, ongoing safety training with technical and contractual support from Aviation Management Directorate (AMD). Continuous evaluation and critique of mission performance and customer satisfaction will be used to measure our success.

#### 1.3 BLM ALASKA AVIATION PHILOSOPHY

The complex nature of the BLM aviation program, combined with the demanding flight environment of Alaska, requires the guidance of a philosophy reflecting the basic tenants of operation. Our goal is to provide safe and efficient aviation support for the BLM mission, while conducting our actions in accordance with this philosophical and regulatory guidance.

- An active and aggressive Accident Prevention Program intended to protect our most precious assets-the people utilizing our services.
- We must be proactive in Safety Management.
- Risk Management will remain incorporated into all aviation operations.
- Managers are responsible for all aircraft missions.
- Aviation provides a service for a customer.
- There must be planning for flight operations including: Safety, Risk Management, Supervision, Organization, and Evaluation.
- Aviation personnel will be qualified and appropriately trained to standards.

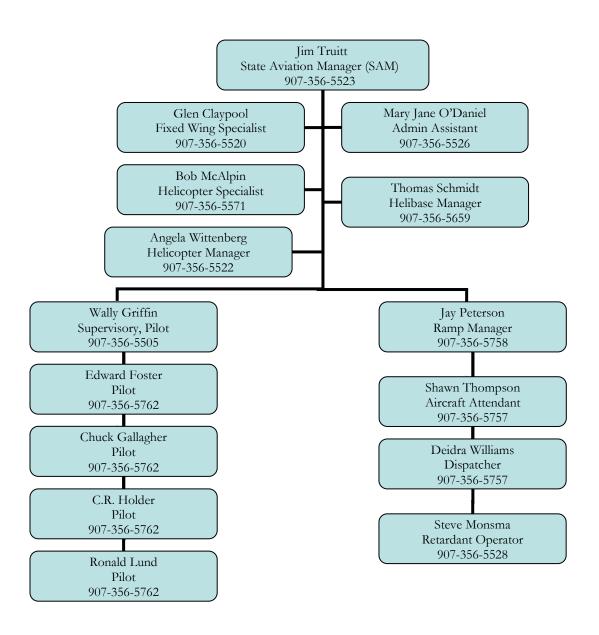
- Aviation personnel will be provided emphasis and consideration for individual development, employee wellness and workforce diversity.
- The aviation organization will be maintained at the most efficient level commensurate with the BLM mission.
- Management has the responsibility to maintain the commitment to aviation safety and efficiency.
- Field offices are empowered to accomplish their mission without undue restriction, regulation, or oversight.
- State and Field Office's local policy and procedure can not be less restrictive, different, or conflict with National Aviation Office (NAO) policy.

#### 1.4 REFERENCES

- A. Title 14 CFR
- B. Departmental Manual, Parts 112, 350-354
- C. OAS Operational Procedures Memoranda (OPMS)
- D. BLM Manual Sections 1112, 1221, 1243, 1244, 1525, 9111, 210, 9400-9470
- E. Office of Management and Budget (OMB) Circulars A-76, A-123, A-126
- F. GSA Federal Property Management Regulation (FPMR) 101-37
- G. Interagency Aviation Operational Guides

# Chapter

# 2.0 Organization AK-360





# 3.0 Roles and Responsibilities

#### 3.1 AVIATION MANAGEMENT DIRECTORATE (AMD)

Formally - Office of Aircraft Services (OAS)

Aviation Management Directorate (AMD) is responsible for all Department of Interior aviation policy and performs aircraft contracting, technical inspections, procurement, and payment administration. Provides Contracting Officers, Technical Specialists, Training Specialists, and financial reports and services to DOI agencies.

#### 3.2 BLM NATIONAL AVIATION OFFICE (NAO)

The National Aviation Program Manager is responsible for BLM aviation policy and leadership of the BLM Aviation Program.

#### 3.3 STATE DIRECTOR

The State Director has overall responsibility for the State Aviation Program, which is delegated to the State Aviation Manager through the manager of the Alaska Fire Service.

#### 3.4 STATE AVIATION MANAGER (SAM)

Serves as the focal point for BLM aviation management matters in Alaska. The State Aviation Manager is responsible for providing staff support and expertise to the State Director on all aviation issues. The SAM provides expertise and oversight to all State and Field Office aviation operations, personnel and facilities. Develops and implements statewide Aviation Management Plan and aircraft safety and accident prevention measures. The SAM provides aviation training support to ASO, Field Offices, Alaska Fire Service, and other agencies. The SAM compiles Aviation Statistical Summary and other annual statewide year-end reports. Provides support to National Aviation Office projects and initiatives

#### 3.5 FIELD OFFICE MANAGERS

The Field Office Manager has overall responsibility for the Field Office Aviation Activities. This responsibility can be delegated to a subsequent position as a collateral duty.

#### 3.6 ZONE AIR SERVICE OFFICER (ASO)

The Zone Air Service Officer serves as the focal point for the Zone Aviation Program by providing technical and management direction of aviation resources to support Resource and Fire programs. He/She has functional responsibilities in the following areas:

- Assures Zone flight compliance with USDI/BLM/State and Zone Policies and regulations.
- Develops and implements the Zone Aviation Operation Plan, as well as specific plans for other aviation programs. (Helicopter Operations, Resource Management, Air Tactical, etc...)
- Assures that appropriate training is provided to users and managers.
- **Designates an Alternate Zone Air Service Officer.** In the absence of the ASO these duties will default to the designated acting or assistant.
- Assures that visiting personnel have received flight crew briefing/orientation guides.
- Confirms DOI/BLM/OMB requirements are met, completes the cost analysis requirements, and ensures flights are scheduled with the appropriate Dispatch Office.
- **>** Briefs users on flight-following requirements.
- Ensures the accuracy of the Aircraft Use Report, processes it, and maintains copies, and records documenting the flight as required by the Departmental Manual.
- Confirms a qualified Chief of Party or appropriate Aircraft Manager is assigned to all project/resource and fire flights.
- Will perform as Project Inspector on Exclusive Use and Rental Contracts.

#### 3.7 FIELD OFFICE AVIATION OFFICER (COLLATERAL DUTY)

The Field Office Aviation Officer serves as the focal point for aviation activities and information by providing support to Resource programs within their respective Field Office and specific projects. He/She has functional responsibilities in the following areas:

- Assures Field Office compliance with USDI/BLM/State and Field Office Policies and regulations.
- Develops and implements the Field Office Aviation Operation Plan, as well as specific plans for other aviation programs and projects. (Helicopter Operations, Resource Management, etc...)
- Assures that appropriate training is provided to users and managers.
- Assures that visiting personnel have received flight crew briefing/orientation guides.
- Confirms DOI/BLM/OMB requirements are met and ensures flights are scheduled with the appropriate Dispatch Office.
- **>** Briefs users on flight-following requirements.
- Assures the accuracy of the Aircraft Use Report, processes it, and maintains copies and records documenting the flight as required by the Departmental Manual.
- Confirms a qualified Aircraft Manager is assigned to all project/resource flights.
- May perform as Project Inspector on Exclusive Use and Rental Contracts.

#### 3.8 AIRCRAFT DISPATCHER

Local Dispatchers trained in aviation operations, policies, and procedures generally fulfill aircraft dispatching duties. Duties include:

- Confirms that BLM Flight Request Form 9400-1a is utilized and completed, and that any Special-Use flight has an attached plan approved by the appropriate authority. Fire flights are the only ones exempt from the mission-by-mission approval requirement.
- When operations cross jurisdictional boundaries, the Dispatcher coordinates with other involved agencies on flight following.
- Maintains a current Aviation Incident/Accident Response Guide and initiates emergency search-and-rescue procedures for overdue, missing, or crashed aircraft.

- When flights are incident related, follows the procedures and guidelines established by AICC and National Mobilization Guides.
- Responsible for procuring rental aircraft (ARA/CWN) for local administrative, fire, and resource flights; ensuring that DOI/BLM/OMB requirements are met.
- Dispatches aircraft, provides flight following, and initiates emergency/SAR procedures when necessary. Maintains documentation files on each flight, local aviation vendors, training and qualifications records, pilot flight/duty records, and radio logs, etc;

#### 3.9 PILOT

The Pilot is in command of the aircraft and has ultimate responsibility under FAA and Departmental regulations and requirements specified in the contract for the safety of the aircraft and persons on board. Other responsibilities include the following:

- Operates the aircraft in accordance with applicable FARs and USDI/BLM policy and procedure.
- Develops, activates, and closes FAA or agency flight plans.
- Wears personal protective equipment when required.
- Does not deviate from the filed Flight Plan or mission profile unless prior authorization is received.
- Performs a thorough pre-flight inspection of the aircraft and briefs all passengers in accordance with 351 DM 1.5.
- Completes load calculations or weight and balance computations prior to flight.
- Completes flight invoices for services rendered.
- The pilot may terminate a flight at any time for safety reasons.

#### 3.10 AIRCRAFT MANAGER

Aircraft Managers include both Resource and Fire Helicopter Managers, Air Tanker Base Managers, Air Tactical Group Supervisors, Smoke Jumper Spotters, and Detection personnel. Each manager complies with his/her appropriate Interagency Operations Guide and is responsible for the following:

- Plans, coordinates, and supervises aircraft operations according to DOI/BLM policy.
- Serves as Project Inspector to administer Exclusive-Use, Call When Needed (CWN), On-Call, or Aircraft Rental Agreement (ARA) aviation contracts in the field.
- Directs pilots and crews and provides operational and safety briefings to aircrews, project leaders, and passengers.
- Conducts risk and hazard analysis, completes flight invoices, daily diaries, and all related documentation.
- Consults with Field Office/Zone or State Aviation Manager when in doubt over any aviation issue.

#### 3.11 FLIGHT MANAGER (FIXED WING AND HELICOPTER)

The Flight Manager is the government representative who ensures compliance with contract or Aircraft Rental Agreement (ARA) requirements and is responsible for coordinating the given flight or project. He/She must have received Aviation Management Directorate (AMD) Flight Manager training within the last three years. (See BLM Aviation Training by Position Matrix Attachment 1 and 2) Other duties include:

Briefs pilots on missions, frequencies, flight routes, hazards, flight following, passenger

- briefing requirements, and any other related information required.
- Checks the pilots' qualification cards and aircraft data cards for approval and currency. Distinguish the difference between Point to Point card versus Mission Specific Qualification Card.
- Ensures that flights are safely conducted and do not deviate from filed Flight Plans or Mission Profiles without prior authorization.
- Initials the flight invoices and routes them according to procedures specified in the contract.

#### 3.12 AIR CREW

Authorized individuals other than the Flight Crew who are essential to the success of the mission; e.g. Loadmaster, Helitack, Observor. (See BLM Aviation Training By Position Matrix Attachment 1 and 2)

#### 3.13 PASSENGER

A person aboard an aircraft who does not perform the function of a flight crewmember or air crewmember. Only essential and "official" passengers are authorized on DOI owned/procured aircraft; the government must derive some benefit from the transport of official passengers. (See BLM Aviation Training By Position Matrix Attachment 1 and 2)

#### Official passengers include

- Employees of the Federal Government traveling on official business.
- Members of Congress and employees of Congressional Committee staffs whose work relates to DOI programs.
- Non-federal personnel engaged in missions which enhance accomplishment of a departmental program.

# Chapter

## 4.0 Administration

#### 4.1 GENERAL

Except for ticketed commercial airline flights, all aircraft will be scheduled through the Alaska Interagency Coordination Center (AICC) at Alaska Fire Service in Fairbanks, or through the Southern Alaska BLM Dispatch Office at Campbell Tract. AICC and the Southern Alaska BLM Dispatch Office may authorize other offices to schedule directly with local vendors, but it remains their responsibility to ensure that flight-following and other aviation regulations are observed. Flights on scheduled commercial airlines are initiated through the local office administrative staff and/or travel agency.

#### 4.2 EXCLUSIVE USE AIRCRAFT/ON-CALL

Aircraft services identified in the Annual Work Plan (AWP) to be accomplished within a specified timeframe and in excess of \$25,000 require a formal aviation contract. Requests for exclusive use contract services require the submission of form **OAS-13** and **OAS-13A** or **OAS-13H** and are made to the State Aviation Manager (SAM). Aviation Management Directorate (AMD) will solicit and award the contract and assign a Contracting Officer (CO) and Technical Representative (COTR). The Fixed Wing and Helicopter Specialists are the Contracting Officer's Representative (COR) and delegate field administration of the contract to one or more Project Inspectors (PI).

#### 4.3 AIRCRAFT RENTAL AGREEMENTS AND CHARTERS

Procurement of aircraft for administrative and aviation projects less than \$25,000 is accomplished through the Aviation Management Directorate (AMD) Aircraft Rental Agreement (ARA). These agreements are used when airlines, contract aircraft, and ground transportation are unavailable, unfeasible, or not cost effective. Requests from Field Offices and the State Offices are made through the local Aviation Manager and or the local Dispatching Office. No employee under any circumstances (other then noted in 4.1) may schedule or procure Aviation Services. This is facilitated by Aviation Managers or qualified dispatch office personnel. Any employee who is asked to accompany personnel from another agency on any type of flight must consult with their respective Aviation Officer.

#### 4.4 SERVICE/END PRODUCT CONTRACTS

All Service Contracts are full service contracts to acquire an end product established on a per-acre per-unit, or per-area basis. These contracts will be conducted in accordance OPM 04-35. **The** 

Field Office Manager and/or State Aviation Manager should be consulted whenever a Service Contract that involves aircraft use is being contemplated or written.

#### 4.5 COOPERATOR AIRCRAFT

Use of state/local government, military, or other federal agency aircraft by BLM employees may require prior inspection and approval by Aviation Management Directorate (AMD). Proposed flights on these aircraft must be requested and consultation with the local Air Services Officer & Field Office aviation collateral duty officer is mandatory.

#### 4.6 FLIGHT REQUESTS

For all flights, the user must assure that there is appropriate funding for the mission and that supervisory approval has been granted. (See Flight Request Check list Attachment 5) For Special Use Flights *less than two days* the project manager *must* complete the back of the 9400-1a. For Special Use Flights that involve the use of one or more aircraft for more than two days a **Project Aviation Plan/Risk Assessment (Attachment 7)** *must* be completed and approved by appropriate superiors. The approved and completed **Project Avaition Plan/Risk Assessment** will be submitted to both the appropriate dispatch center and the office of the State Aviation Manager *prior* to the flight. (Fire Missions are exempt from the 9400-1a Requirement.)

#### 4.7 SPECIAL USE ACTIVITIES

Special Use flight operations are operations that involve the utilization of airplanes and helicopters which are not point-to-point flight activities and which require special control measures due to their inherently higher risk. This may require deviation from normal operating practices where authorized by Aviation Management Directorate (AMD). Special pilot qualifications and techniques, special aircraft equipment, and personal protective equipment are required to minimize risk to personnel and property. These activities include:

Low level flight (within 500' of the surface) Smoke jumping/paracargo

Resource reconnaissance Mountain flying
Air tactical group supervision Fire reconnaissance
Cargo letdown Toe-in, single-skid

External load - shortline  $\leq 50$ ' (helicopter) Rappel External load - longline > 50' (helicopter) Short-haul

Vessel landings - Water landings - floats or hull
Wheel operations on unprepared landing areas
Offshore platform landings
Animal darting, paint ball
Animal gathering and capture

Animal eradication Handheld net gun
Airframe mounted net gun (helicopter) Night vision goggles

Aerial ignition Water/retardant application

**Note:** Future flight activities may be developed which should also be identified as special use. If a question exists, the applicable BLM Aviation Staff or Zone Air Service officer should be consulted.

#### 4.8 PROJECT AVIATION MANAGEMENT (NON-FIRE MISSIONS)

For those projects involving aircraft more than two days a Project Aviation Safety Plan/Risk Assessment (Attachment 7) must be completed. (DM 352 1.9, BLM National Aviation Plan) The

appropriate Field Office Manager must approve the Project Aviation Plan. An approved copy of the Project Aviation Plan must be on file with the State Aviation Managers Office **prior** to the flight.

#### 4.9 ADMINISTRATIVE FLIGHTS

Aircraft may be used to transport personnel to meetings, administrative activities, or training sessions when it is the most cost effective mode of transportation. These flights are ordered through the Aviation Dispatcher or local Aviation Manager. Prior approval is required by the solicitors' office for employees above the GS/GM-15 level, members of their families, and all non-federal travelers on the flight. The requirements and procedures are outlined in OMB Circular A-126 and **OPM 04-07.** Request for Admin Flights (SES Flights) will be submitted at least ten (10) working days prior to the flight. This will allow Aircraft Dispatchers and the Solicitors office enough time to perform cost analysis, review and Approval/Disapproval of the flight.

#### 4.10 COST ANALYSIS

Each flight request for chartered or government-owned aircraft includes an approved cost analysis, which clearly demonstrates the cost effectiveness of the flight. The flight requestor or first-line supervisor coordinates with the Aviation Dispatcher to complete the cost analysis.

#### 4.11 FIELD OFFICE AND ZONE AVIATION PLANS

State Office, Field Offices, and Zones will prepare annual aviation operating plans that outline their specific needs. Operations adhere to and are not more restrictive than the national standard, unless exception has been granted in writing by the BLM National Aviation Office. Field Office and Fire Zone Plans are updated prior to **May 15** annually. Copies of all annual up-dates should be sent to the State Aviation Manager for State Office filing.

#### 4.12 DOCUMENTATION REQUIREMENTS

Documentation requirements for aviation activities are maintained in their respective field office for a period of two years or duration of contract.

#### 4.13 ISSUE RESOLUTION

Issue resolution is accomplished through the chain of authority established by Alaska BLM.

#### 4.14 AVIATION PROGRAM REVIEWS

Aviation program reviews occur at the Field Office/Fire Zone level every three (3) years and at the State level every four (4) years.

### 5.0 Aviation Use Standards

#### 5.1 GENERAL-USE FLIGHT REQUIREMENTS

Typically a General-Use flight is a point-to-point flight that originates at one developed airport or heli-base and flies direct to another developed airport or heli-base. Requirements include:

- Designated Flight Manager
- Completed Aircraft Flight Request checklist (Attachment 5)
- Aviation Management Directorate (AMD) approved and carded pilot and aircraft.
- Flight Plan/Flight Following is filed with FAA and/or Aviation Dispatcher as needed.
- Mission briefing given to the pilot and safety briefing given to the passengers

#### 5.2 SPECIAL-USE FLIGHT

Special-Use activities are the utilization of aircraft in support of programs that require special techniques, procedures, and considerations. These operations are listed in 351 DM 1.7 and meet the following requirements:

- Aircraft and pilots must be approved for Special-Use activity prior to use.
- All Special Use flights or missions except fire missions, must have an approved 9400-1a or Project Aviation Plan and Risk Assessment reviewed by the Line Manager and approved by the Field Office Manager, or as delegated.
- Passengers on a Special-Use flight must be considered to be essential to the mission.
- Employees engaged in Special-Use activities must be qualified through required training (see OPM 04).

#### 5.3 TRAINING

All personnel engaged in aviation activities, from passengers to upper management, must meet training and experience requirements commensurate with their assigned aviation responsibilities as listed in OPM 04, BLM Aviation Training By Position Matrix (Attachment 1, 2 and 3) and NWCG 310-1.

#### 5.4 AIRCRAFT AND PILOT REQUIREMENTS

The aircraft (351 DM 2) and pilot (351 DM 3) must be approved and current for the specific mission. For training requirements, see OPM 04-22.

# Chapter

# **6.0 Operational Policy**

#### 6.1 FLIGHT PLANS OPM 04-2 - ALL FLIGHT OPERATIONS REQUIRE A FLIGHT PLAN

Pilots shall file and operate: on a Federal Aviation Administration (FAA) flight plan or

- b) On an international Civil Aviation Organization (ICAO) flight plan; or
- c) In accordance with a bureau approved flight plan program; or
- d) In accordance with an OAS director approved vendor flight program specified in an OAS procurement document.

Flight plans shall be filed prior to Take Off.

Bureau flight plan programs may be used to accommodate specialized bureau missions and must be approved as delegated by the bureau Director. As a minimum, a bureau flight plan program must specify route of flight, estimated time of arrival (ETA), how an aircraft will be tracked during flight, and response procedures should the aircraft experience a mishap or fail to check in.

6.2 FLIGHT FOLLOWING-ALL FLIGHTS REQUIRE FLIGHT FOLLOWING DOCUMENTATION
Flight following is a safety and operational requirement of the Department of the Interior; see DOI
Manual 352 DM 1.9G, OPM 02, and the Bureau of Land Management National Aviation Plan.
Manual 9400.45B

Flight following arrangements must be made clear to AICC or the Southern Alaska BLM Dispatch Office at the time the aircraft order is placed. Flight Requests and Flight Following logs will be maintained and stored by the dispatch office responsible for the flight. These records will be kept on file for a period of three (3) years. For those aviation activities occurring at remote field camps, local flight following may be more appropriate. Flight following logs in these instances must be maintained daily and kept for 3 years.

There are four (4) approved standard methods of flight-following, each method has specific requirements to allow flexibility in accommodating mission needs.

The approved standard methods of flight-following are:

An agency flight plan filed with a BLM dispatch office, with radio check-ins at least once every 30 minutes with a BLM or State of Alaska Division of Forestry (DOF) dispatch office. (the air-to-ground frequency for BLM is 127.45; the frequency for DOF is 132.45) This is BLM Alaska's default flight following procedure. Unless other arrangements are made at the

time the flight is ordered, dispatch will assume that this is the chosen flight-following method and that the aircraft will be checking in at 30-minute intervals. Dispatch will consider the aircraft to be overdue if more than 30 minutes passes between check-ins, and will act accordingly.

- A flight plan filed with a BLM dispatch office, with radio check-ins with BLM or DOF at least once per hour.
- An IFR flight plan filed with FAA.
- A VFR flight plan filed with FAA, with radio check-ins with either FAA or an agency dispatch office at least once per hour.

The chosen method of flight following must be documented on the Aircraft Flight Request Form (9400-1a, Project Aviation Safety Plan or the Agreement for non-standard Flight Following Worksheet.)

In Alaska, many flights occur in remote areas where radio communications are limited or impossible. In these situations, the requirement for 30-minute or 60-minute check-ins may not be realistic. In such a case, non-standard flight-following may be approved, this approval will be from the State Aviation Manager and the Dispatch center will be consulted. The non-standard flight following will be described in a Flight Following Agreement. Pilots will follow their flight plans and make position reports in the time interval as agreed in the Flight Following Agreement. Any change in Flight Plan will be reported to the Dispatch Center. If the one-hour reporting time interval is exceeded, or anticipated to be exceeded, prior approval by the State Aviation Manager is required (351DM 14.C.2.B). The Agreement for non-standard Flight Following Worksheet (Attachment 8) will be filled out by the Project Leader and signed by the appropriate field office manager or designee prior to the start of the project or whenever changes in the flight activities warrant a change to previously agreed upon check-in procedures.

Some alternatives that may be used are:

- Establish a time with dispatch when check-ins will occur.
- Establish a round robin (check in-check out) flight plan with Dispatch or FAA.
- When operating in remote field camp settings, a prearranged flight-following plan which may include check-ins or round-robin plans filed with the base camp. (The flight plan should still be specific regarding time frames and destinations.) The base camp, however, must have some means of communication with another office or entity within a reasonable amount of time in order to implement and facilitate emergency procedures should they become necessary. When planning a fixed wing support flight to and from a camp it will be imperative that flight following of that aircraft be coordinated with the sending dispatch center. Use of satellite communications will allow the camps to check in with dispatch to acknowledge when the aircraft arrives and departs the camp.

Note: The chosen method of flight following must be documented on either the 9400-1a, Project Aviation Safety Plan, or the Agreement for non-standard Flight Following Worksheet. These can be found on the AFS web Page under Forms, etc/Forms & Templates.

It is critical to understand that Bureau regulations regarding overdue aircraft require specific actions. A radio/communications search and documentation will begin when an aircraft is 10 minutes overdue from a scheduled check-in or an arrival time at a particular destination. Once an aircraft is overdue by one hour, a physical search is to begin. The office responsible for the operation of the

overdue aircraft will be billed for the costs of the search, including personnel overtime and any aircraft used.

BLM aircraft operations conducted under VFR flight plans will require a dispatcher or other qualified person to be on duty until the aircraft operations are concluded unless other arrangements have been identified in advance. For BLM point-to-point flights between two Alaska Fire Service stations, a dispatcher will be on duty at the departure point until the aircraft is en route and communications with the aircraft are handed off to an office en route or to the final destination point. A dispatcher will remain on duty at the destination point until the aircraft has arrived. An agency dispatcher is not required to be on duty if an IFR plan has been filed with FAA.

Dispatcher and fueler overtime for extended BLM projects involving multiple flights and/or overtime hours will be funded by the benefiting BLM office. Overtime incurred for the flight following and fueling of non-BLM agency aircraft will be billed to that agency through the reimbursable process unless other arrangements have been agreed upon in advance.

#### 6.3 OVERDUE AIRCRAFT

Any aircraft that has not been accounted for within thirty (30) minutes of the last check-in is overdue. At that time the Aircraft Dispatcher or person responsible for flight following will initiate the actions listed in the Aviation Incident/Accident Response Guide.

#### 6.4 OPERATIONAL GUIDES AND HANDBOOKS

A multitude of guides and handbooks are available to assist the aviation user. The Departmental Manuals and DOI AVIATIONAL MANAGEMENT Operational Procedures Memorandums (OPM) prevail when any other document conflicts or is less restrictive.

#### 6.5 AVIATION REFERENCES

Each Field Office and the State Office will maintain a current aviation reference library. At a minimum, each office should have:

- ♦ Departmental Manual, Parts 112, 350-354
- ♦ FARs/Aeronautical Information Manual
- ♦ Aviation Management Directorate (AMD), Bureau and Interagency Operational Guides
- ♦ State Aviation Management Plan
- ♦ Aviation Training Materials
- ♦ Aircraft Identification/Performance Publications
- ♦ Unit Aviation Incident/Accident Response Plan
- ♦ NOAA Sectional Charts
- ♦ Unit Aerial Hazard Map
- ♦ BLM State Aviation Mishap Plan

#### 6.6 AVIATION DOCUMENTATION

Aviation documentation requirements are described in **the Aviation Documentation Matrix.** (Attachment 10) The importance of accurate, comprehensive flight and administrative records cannot be overemphasized. All documentation should be retained locally for at least two years. Typical files include:

- ♦ General Use Flight Plans & Documentation
- ♦ Special Use Flight Plans
- ♦ Contract/ARA Administration Files
- ♦ Individual Aviation Training and Qualification Records
- ♦ Yearly Aviation Statistical Summaries/Reports
- ♦ Local Aerial Hazard/Helispot/Airstrip Database
- ♦ Aviation Incident/Accident Files
- ♦ Aviation Memo/Bulletin/Alert File
- Aviation Forms (Aviation Management Directorate (AMD), BLM, etc.)

#### 6.7 AVIATION MANAGEMENT DIRECTORATE (AMD) HANDBOOKS

- Aviation Life Support Equipment (ALSE), 351 DM 1
- ♦ Aviation Mishap Notification/Investigation/Reporting, 352 DM
- ♦ Aviation Fuel Handling, 351 DM
- ♦ Aviation Transport of Hazardous Materials, 351 DM
- ♦ Heliport Installation, 351 DM 1
- ♦ Airfreight/Paracargo, 351 DM 1
- ♦ Animal Gathering and Capturing, 351 DM 1
- ♦ Animal Eradication and Tagging, 351 DM 1

#### 6.8 INTERAGENCY OPERATIONAL GUIDES

- ♦ Airtanker Base Operations Guide
- ♦ Aerial Ignition Guide
- ♦ Helicopter Rappel Guide
- ♦ Helicopter Operations Guide (IHOG)
- ♦ Air Tactical Group Supervisor Guide
- ♦ Aerial Supervision Modules Operations Guide
- ♦ Military Use Handbook (Chapter 70)

# Chapter

# 7.0 Safety

#### 7.1 SAFETY STANDARDS

All aviation safety standards and requirements identified in the Federal Aviation Regulations, DM 350-354, Aviation Management Directorate (AMD) -OPMs, BLM Manual 9400, State and Field Office Aviation Operational Plans must be followed.

#### 7.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

All crew members and passengers must wear the appropriate complement of PPE for Special-Use activities. Requirements are listed in 351 DM 1.7 (E) and outlined in the Aviation Life Support Equipment (ALSE) Handbook. Any questions concerning the requirements and procedures for obtaining PPE are directed to the local Aviation Manager or Aircraft Dispatcher.

#### 7.3 AVIATION LIFE SUPPORT EQUIPMENT (ALSE)

Project leaders ensure that appropriate and adequate ALSE, including PPE, is aboard the aircraft or worn by the individual. Detailed information is contained in the ALSE Handbook.

#### 7.4 PILOT QUALIFICATIONS

Only well trained, experienced and FAA certified pilots will be utilized in BLM Aviation activities. All pilots flying DOI owned, leased, contracted, rented (ARA) or Cooperator aircraft will meet requirements set forth in 351 DM 3. Prior to flight a current Aviation Management Directorate (AMD) or Interagency Pilot Qualification Card or Aviation Management Directorate (AMD) Letter of Approval (LOA) shall be displayed indicating that the pilot is certified to fly the particular aircraft and is qualified to perform the specific mission at hand. If the card is not current, pilot is not checked off for the mission or some other problem arises, the flight will not commence until the local Aviation Manager is notified and the situation remedied.

#### 7.5 FLIGHT AND DUTY LIMITATIONS

Pilot flight time and duty time limitations are outlined in DM 351 1.9B. Daily and cumulative flight and duty hours will be monitored, tracked, and documented on all DOI fleet, contract and rental pilots. Aircraft Managers, Pilots and/or Dispatchers will maintain flight and duty logs. SAFECOM reports, will be completed and forwarded on all flight and duty infractions. During periods of prolonged heavy aircraft use (intense fire activity) flight and duty may be further limited at management discretion.

#### 7.6 COMFORT/REST

Every effort will be made to ensure that pilots on extended standby or prolonged, extensive flying periods are provided comfortable areas to rest/take breaks/work. This includes adequate shade/air conditioning/heat, toilet facilities, food and water, and an atmosphere free of undue noise, activity, and stress.

#### 7.7 STERILE COCKPIT-(TAKE OFF AND LANDING CONTROLED AIRSPACE)

"Limiting communications and actions within the cockpit to only those required for safe maneuvering and traffic separation". This means communications with Dispatch, ground personnel and other aircraft concerning *mission* information is prohibited. Pilots will be afforded the opportunity to maneuver the aircraft safely at all times without undue physical or mental interference. This is especially important during approach/departure and take-off/landings. A sterile cockpit will be maintained within 5 miles radius of controlled and uncontrolled airports. A sterile cockpit will also be maintained during approach and departures at remote helispots and airstrips for a time period specified by the pilot.

#### 7.8 TRANSPONDER CODE

To the extent possible, all aircraft engaged in tactical fire suppression operations will utilize transponder code 1255.

#### 7.9 AIRCRAFT CERTIFICATION

Only aircraft properly equipped, well maintained and FAA/DOI certified will be utilized for BLM aviation missions. All DOI owned, leased, contracted or rented aircraft will be inspected and certified for intended missions under the appropriate CFR/FAR as outlined in 350-354 DM (this includes flights on Cooperator Aircraft).

#### 7.10 INTERAGENCY AIRCRAFT

Regardless of agency assigned aircraft, i.e. Forest Service or State of Alaska, both pilot and aircraft must be inspected and approved by either Aviation Management Directorate (AMD) or USFS. BLM employees will not ride on military aircraft without prior special approval.

#### 7.11 ARA POINT-TO-POINT/HIGH RECON FLIGHTS

Vendor procured and operated aircraft (ARA) conducting only direct flights between airports carrying DOI passengers and/or cargo or conducting high-level reconnaissance (above 500' AGL). The FAA has primary responsibility for inspection of these aircraft and technical oversight of the vendor for compliance under CFR Part 135. A written notice issued by DOI AVIATION MANAGEMENT or the USFS will be carried aboard the aircraft indicating that the vendor has a current and approved procurement agreement (ARA) with the agency. Although DOI/USFS has not inspected the aircraft, the notice verifies that the vendor is certified under Part 135. Aircraft without a current Aviation Management Directorate (AMD)/USFS notice should not be utilized.

#### 7.12 SPECIAL USE FLIGHTS

DOI/USFS aircraft utilized for Special Use missions must have a current Aircraft Data Card onboard issued by Aviation Management Directorate (AMD) or USFS. This card certifies that the

aircraft has been inspected and approved by either Aviation Management Directorate (AMD) or USFS and meet all FAA and agency equipment and maintenance requirements. Approvals for the specific intended mission must be indicated. If the aircraft doesn't have a card, the card has expired or is not approved for the intended mission **No Flight Will occur; consult local Aviation Manager**.

#### 7.13 MISSION PLANNING

All flights will receive a level of planning and risk management commensurate with the complexity and risks involved with the proposed mission. The goal is to reduce personal exposure, reduce/mitigate risks and prevent accidents/incidents. The following are required:

#### 7.13.1 ALL FLIGHTS

- ♦ Only essential flights and passengers approved (Mgt.)
- ♦ Approved pilots and aircraft (Av. Mgr/Flight Mgr.)
- ♦ Flight Plans/Flight Following (Pilot/Dispatch)
- ♦ Preflight Inspection/Weight & Balance/Load Calc completed (Pilot)
- ♦ Mission briefing to pilot and passengers (Flight Manager)
- ♦ Passengers manifested/briefed on aircraft safety (Flight Mgr/Pilot)
- ♦ Safety equipment available and utilized (all)

#### 7.13.2 SPECIAL USE FLIGHTS (IN ADDITION TO ABOVE)

- ♦ Special Use Safety Plan Prepared (9400-1a Less than 2 days) (Proj Mgr/Dispatch)
- Project Aviation Safety Plan/Risk Assessment Projects greater than 2 days (Proj Mgr/Dispatch/Line Manager)
- ♦ PPE used by pilot and passengers (Flight Mgr/Pilot) (Fire Mission)
- ♦ Hazard analysis/mitigation performed (Av Mgr/Disp/Pilot) (Fire Mission)
- ♦ Hazard map developed & referred to (Av Mgr/Disp/Pilot) (Fire Mission)
- Airspace deconfliction performed (**Disp**) (Fire Mission)

#### 7.14 ENVIRONMENTAL FACTORS

- Daylight All DOI aircraft (except aircraft certified for IFR and with IFR rated pilots) are limited to flight during daylight hours. Refer to Civil Twilight charts for your specific area.
- Weather/Visibility The pilot must evaluate known and predicted weather conditions prior to flight, avoid thunderstorms and cancel, postpone, or terminate flights when weather or visibility conditions warrant it
- Wind Helicopter operations will cease whenever wind exceeds limitations in the aircraft Operators Flight Manual. If no limitations are prescribed in the Flight Manual the following limitations apply:
- Low-Level (below 500' AGL)
  - ♦ Type III 30 knots or max gust spread of 15 knots
  - ♦ Type I & II 40 knots or max gust spread of 15 knots
- ➤ High-Level (above 500' AGL):
  - ♦ All types 50 knot winds

#### 7.15 AVIATION INCIDENT/ACCIDENT RESPONSE PLANS

All aircraft accidents, incidents, mishaps, aviation hazards, or maintenance deficiencies that occur during any BLM flight operation must be reported as soon as possible (see 352 DM 1.10A and 352 DM 6.5) to the BLM State Aviation Manager. All such incidents, mishaps, etc. must be reported on a **SAFECOM form (Attachment 12)** the completed form should be faxed or mailed to the BLM State Aviation Manager. In addition, any accident or incident involving property damage or personal injury must be reported as soon as possible by the quickest possible method. All offices and Dispatchers will develop and maintain current **Incident/Accident Response Plans** (Attachment 13) for their area of responsibility. An **Incident Accident Response Plan** specific to each project will be completed and attached to the Project Aviation Plan. Plans will include clear procedures to follow before and after aircraft accidents occur; listing of necessary local, state, and national emergency and agency aviation safety contacts.

#### 7.16 OVERDUE/MISSING AIRCRAFT

Aggressive attempts to contact/track aircraft that are overdue for radio/telephone check-ins or arrivals will be made by Dispatch offices 30 minutes after the last positive check-in, if the aircraft has not been contacted or located, Dispatch will initiate search and rescue actions. Procedures will be outlined in the unit Incident/Accident Response Plan. A current Incident/Accident Response Plan must be at each dispatch center or Resource Project base where flight following occurs.

#### 7.17 MISHAP REPORTING

All aviation mishaps, hazards, maintenance deficiency, incidents, or accidents will be reported according to 352 DM 1 & 6 and the Aviation Management Directorate (AMD) Aviation Mishap Notification, Investigation, Reporting Handbook.

#### Aircraft Accident/Incidents With Serious Potential

Reported immediately to National Transportation and Safety Board (NTSB) and Aviation Management Directorate (AMD). Make required agency Notifications outlined in unit Incident/Accident Response Plan. NTSB/DOI-AVIATION MANAGEMENT will conduct investigation.

#### > Aircraft Incidents

All mishaps/hazards other than described above document on a "SAFECOM". Send copies to Aviation Management Directorate (AMD) Safety and the State Aviation Manager. Follow-up investigation by Air Services Officer or Field Office Aviation Manger, collateral duty, is discretionary. Follow-up by State Aviation Manager may be requested.

#### 7.18 AVIATION TRAINING AND QUALIFICATIONS

All personnel engaged in aviation activities, from passengers to upper management, will meet training, recurrency and experience requirements commensurate with their assigned aviation responsibilities. (see OPM 04; NWCG 310-1; or BLM Aviation Training & Qualifications Matrix, Attachment 1 and 2)

#### > Instruction

Aviation training will be conducted by personnel approved as Interagency Aviation Trainers; Aviation Management Directorate (AMD) Training Specialists or other approved aviation instructors. Basic and 200 Level aviation courses may be coordinated and presented at the

field level. Higher level aviation training will be requested through the State Aviation Office, Aviation Management Directorate (AMD) or NIFC.

#### Documentation

All aviation training sessions presented at the local level will be documented on Aviation Management Directorate (AMD) -106 or similar form and retained in local files. Individual employee training, qualification and experience records will be updated annually and copies will be maintained by the employee and their supervisor.

#### 7.19 AVIATION REVIEWS

Each Field Office Aviation Program will be reviewed/inspected at least once every three (3) years by the State Aviation Manager or national/regional review teams. Facilities, staffing, aircraft dispatching, administrative, and operational procedures will be analyzed for compliance with regulations and safety enhancement. Findings and recommendations will be reported to the Field Office Manager and State Director within three months of the review.



# **8.0 FLIGHT OPERATIONS**

#### 8.0 FLIGHT OPERATIONS

Except where exempted, all aircraft operations will be carried out in accordance with Department, Bureau and FAA regulations. All employees involved in aircraft operations will be trained and fully qualified in their assigned position. The appropriate handbooks, guides, preferred technical and operational procedures should be reviewed and utilized prior to a specific aviation operation or project.

#### 8.1 AIRTANKER OPERATIONS

Airtanker dispatch, ordering, and operations are conducted according to AICC and National Mobilization Guides. The Airtanker Base Manager supervises ground operations in accordance with the Interagency Airtanker Base Operations Guide.

#### 8.2 AERIAL SUPERVISION MODULE (ASM) OPERATIONS

ASM dispatch and ordering is accomplished in accordance with AICC and National Mobilization Guides. ASM operations are performed according to the BLM Aerial Supervision Module Operations Guide, and the policies and procedures prescribed in the Interagency Standards for Fire Operations Handbook.

#### 8.3 AIR TACTICAL OPERATIONS

Air Tactical operations are performed in compliance with the Interagency Air Tactical Group Supervisor's Guide, BLM Aerial Supervision Module Operations Guide, and the policies and procedures prescribed in the Interagency Standard for Fire Operations Handbook.

#### 8.4 HELICOPTER OPERATIONS

Helicopter operations, both fire and resource, are performed in compliance with the Interagency Helicopter Operations Guide.

#### 8.5 AERIAL IGNITION OPERATIONS

Aerial ignition operations and projects are conducted in compliance with the Interagency Aerial Ignition Guide.

#### 8.6 TRANSPORTATION OF HAZARDOUS MATERIALS

Any transportation of hazardous material must meet the requirements of the Aviation Transport of Hazardous Materials Handbook (351 DM 1).

#### 8.7 AIRCRAFT TRANSPONDER CODE (FIRE FIGHTING)

As directed by Aviation Management Directorate (AMD) Information Bulletin NO.97-5, transponder code 1255 must be utilized by aircraft responding to and operating over fire suppression operations. It is not to be used for repositioning or during cross-country flights.

#### 8.8 SMOKEJUMPER OPERATIONS (PILOT)

Smokejumper dispatch and ordering are accomplished in accordance with the National Mobilization Guide. Operations are performed according to the DOI Smokejumper Pilot Operations Guide and policies and procedures prescribed in the Interagency Standards for Fire Operations Handbook.

#### 8.9 LAW ENFORCEMENT OPERATIONS

BLM Law Enforcement personnel often cooperate with other law enforcement agencies in their mission. This sometimes involves the use of State, local, military, and other federal aircraft. Use of Cooperator Aircraft for law enforcement missions is authorized only when specific Memorandum of Understanding (MOU) and/or Letters of Approval (LOA) between the cooperating agencies and Aviation Management Directorate (AMD) are in place. Check with local aviation management to ensure that planned activities are covered by existing MOU's/LOA's.

#### 8.10 AERIAL PHOTOGRAPHY

The Bureau of Land Management in Alaska manages an aerial photography program to support BLM programs, such as, Cadastral boundary survey, the Alaska Land Transfer Program, renewable resource management, scientific studies, minerals management, and law enforcement. For photogrammetric mapping, BLM has the ability to acquire aerial photography with a calibrated aerial camera, Track Air flight management system, with a U-21contract aircraft fitted with a camera port. All Flights will comply with appropriate policy, guides, and SOP's. No Flights are authorized over 18,000 feet MSL without special operations, equipment, and approval by the Office of the State Aviation Manager, Aviation Directorate Management (AMD), and National Aviation Office (NAO).

#### 8.11 RESOURCE HELICOPTER MANAGER PROGRAM

Two (2) Project Helicopter Manager positions are established within Alaska to strengthen the resource aviation program. Potential catastrophic events indicate a continuing need for education and on site supervision by experienced helicopter managers. It is not the intent of the aviation program to "take up a seat" during the mission. The employees assigned to these positions will work toward accomplishing the tasks listed below. The list is not intended to be all inclusive, but a starting point for managers and resource specialists to consider as they accomplish their mission.

- Assist managers in the planning, development and completion of the Project Aviation Plan and Risk Assessment per the BLM Alaska State Aviation Plan
- Assist via on the job field safety and awareness training to employees that use aviation resources in accomplishing the BLM mission in Alaska.

- Train field personnel in setting up flight following procedures, external load work, transport of Hazmat material, helispot management, & load calculations.
- Assist in developing the employee's field skills that have completed the Project Helicopter Manager class.
- Ensure that field aviation operations are being conducted in a safe manner and correcting unsafe practices on the spot. This will be done in a professional manner that assists field personnel, with the intent of **not** hindering the progress of their project.
- Work with Project Managers to ensure that OAS-23's are completed properly and routed to the appropriate office as a completed and correct document.
- Perform the duties of Project Helicopter Manager whenever there is an identified need.
- Perform the duties of Helicopter Manager for VIP/SES flights.

In the Southern part of the state, the helicopter operations specialist will be working as part of Zone Fire Staff (AK-315). Their time and assistance can be scheduled through the dispatch office in Anchorage (907-267-1360).

In the Northern part of the state, the helicopter operations specialist works as part of the BLM State Aviation Managers staff (AK-360). Their time and assistance can be scheduled through the Alaska State Helicopter Operations Spec. He can be contacted at (907) 356-5571. If you have any questions or any suggestions to improve the aviation safety program, please contact any of the aviation staff.



# 9.0 Resource Project Planning

#### 9.1 AVIATION PROJECT PLANNING:

When planning individual aviation projects every effort should be made to employ "best practices" that ensure the safety of each person and the equipment associated with each flight. Flights may deviate neither from plans nor from Department policy and procedures, except for safety of flight considerations. Project planning includes, as a minimum, the following:

#### Point to Point Flights

- Review and complete Flight Request Checklist (Attachment 5)
- Contact Aviation Dispatcher 9400-1a filled out with information from the Flight Request Checklist.
- Contact Dispatch office to confirm aircraft requests and requirements.

#### **Special Use Flights Less than two days** (Fire Missions are Exempt)

- Review and complete Flight Request Checklist (Attachment 5)
- Contact Aviation Dispatcher, 9400-1a filled out front and back with information from the Flight Request Checklist.
- Appropriate manager approval required.
- Passengers on a Special-Use flight must be crewmembers considered to be essential to the mission.
- Employees engaged in Special-Use activities must be qualified through required training (see OPM 04-04) and experience.
- Contact Dispatch office to confirm aircraft requests and requirements.

#### **Special Use Flights Greater than two days** (Fire Missions are Exempt)

- Completion of Project Aviation Safety Plan/Project Risk Assessment. (Attachment 6) This worksheet should be completed by the Project Manager. (Coordination with the Local or State Level Aviation Management is encouraged) The worksheet should than be reviewed by the Field Office Manager or delegate, who can make Project Plan and Risk Management decisions based on the available information.
- Copies of the Project Approved **Project Aviation Safety Plan/Project Risk Assessment Shall** be forwarded to the appropriate Dispatch Office and State Aviation Office **Prior** to the flight.
- Contact Dispatch office to confirm aircraft requests and requirements.

### **10.0 AVIATION FACILITIES**

#### 10.1 OPERATIONAL BASES

Operational bases are facilities that are permanent installations and are used on a continuous or seasonal basis for aviation operations, including heliports, retardant bases, and airport facilities. These include aviation facilities on BLM property and facilities on non-BLM land where BLM has primary responsibility for operations, maintenance, and oversight.

#### 10.1.1 CONSTRUCTION AND MAINTENANCE

The size and extent of aviation installations are commensurate with the expected aircraft use at any given site. Design criteria provide for operational safety as well as adequate work/rest environment for aircrew and personnel assigned. Facilities are constructed and maintained according to BLM Manual 9400 and 9111. Field Offices are responsible for the Safety and Security of personnel and equipment, purchase/lease, construction, maintenance, and utilities relating to aviation facilities.

#### 10.1.2 SAFETY

State Office Divisions, Field Offices, and Fire Management Zones **Shall** ensure that Aviation facilities comply with safety regulations outlined in Departmental manuals, guides, handbooks, and the Occupational Safety and Health Act (OSHA). Building, equipment, and landing surfaces will be inspected by local Aviation Managers annually to identify maintenance or safety deficiencies. Modifications and repairs are made prior to the operational season. The State Aviation Manager inspects aviation facilities at least once every two years.

#### 10.2 TEMPORARY BASES

Temporary bases are sites used on a temporary or intermittent basis. (i.e., heli-spots and remote airstrips) Sites not located on BLM land must be pre-approved by the land owner and appropriate BLM management. Each site should be cataloged as to location, description, local hazards, use procedures, agreements, and contacts. Inspections and maintenance are completed as necessary to meet agency safety standards.

#### 10.3 ZONE/FIELD OFFICE SOP'S

Each Fire Management Zone and Field Office with management responsibility for an Aviation facility will produce a SOP that addresses the day-to-day operational procedures, security, and safety

practices. This document should be updated each year and kept on site and be clearly accessible to all personnel and contractors.

# Chapter

# 11.0 Aviation Security

#### 11.1 AVIATION SECURITY

The policies and procedures in this chapter are intended to make the theft of BLM aircraft more difficult and time consuming and therefore an unattractive target to potential criminals or terrorists.

#### 11.2 **DEFINITIONS**

For the purpose of this chapter, the following definitions apply.

- A. The term "aircraft operations area (AOA)" means the area within an aviation facility in which flight-capable aircraft are present for the purpose of loading or unloading of cargo or passengers, refueling, maintenance, parking, storage, etc.
- B. The term "aviation facility" means any DOI owned or controlled real property used for aircraft landing and takeoff at which DOI owned or controlled aircraft may be permanently or temporarily based.
- C. The term "control" is used in two contexts.
  - 1. As it relates to aviation facilities, the term "control" refers to the condition existing when a DOI entity has authority to institute, modify or otherwise effect physical security changes at an aviation facility regardless of property ownership.
  - 2. As it relates to aircraft the term "control" shall mean "operational control" as defined in the Federal Aviation Regulations Part 1.1: "operational control with respect to a flight means the exercise of authority over initiating, conducting or terminating a flight." This definition is independent of aircraft ownership.
- D. The term "dual-lock method" means using a combination of two locking devices or methods to physically secure or disable a parked aircraft for the purpose of reducing the probability of aircraft theft and associated misuse by unauthorized personnel.
- E. The term "risk assessment" is meant to refer to the result of a combined threat and vulnerability assessment. It can generally be characterized as an analysis of the probability of serious impact or damage resulting from a known or postulated threat successfully exploiting one or more vulnerabilities.

#### 11.3 RISK ASSESSMENT.

To assess the risk of theft and associated misuse of DOI owned or controlled aircraft by terrorists or individuals engaging in other criminal activity, the Bureau Aviation Manager will ensure a risk assessment is conducted for each aviation facility. Risk assessments will conform to the following conditions:

- A. Individuals conducting aviation facility risk assessments will utilize the Transportation Security Administration's (TSA) Airport Characteristics Measurement Tool (ACMT) as one method of determining where DOI aviation facilities fall within the risk spectrum. Guidance on the use of the ACMT can be found in TSA Information Publication A-001, Security Guidelines for General Aviation Airports. (Available on the TSA website.) The character of any risk assessment tools used to supplement the ACMT is left to the discretion of the Bureau Aviation Manager.
- B. Individuals responsible for conducting aviation facility risk assessments should be intimately familiar with the facility, its activities, and the surrounding area.
- C. Each aviation facility risk assessment will be periodically reexamined and adjusted as necessary to ensure it accurately reflects current conditions.

#### 11.4 SECURITY PLAN.

To ensure all aviation facility personnel and authorized users follow uniform facility security practices and incident response procedures, the Bureau Aviation Manager will insure a written security plan is prepared for each aviation facility. Security plans will conform to the following conditions:

- A. Individuals preparing aviation facility security plans will follow the Security Procedures Template. The template can be found in Appendix G of TSA Information Publication A-001, Security Guidelines for General Aviation Airports.
- B. The scope and depth of the aviation facility security plan should be commensurate with the size and operating complexity of the facility for which it is prepared.
- C. Each aviation facility security plan will be regularly reviewed and adjusted as necessary for currency.

#### 11.05 AVIATION FACILITY SECURITY REQUIREMENTS.

- A. Security levels and minimum security requirements for Federal facilities are detailed within 444DM 1, Physical Protection and Building Security. As appropriate, DOI aviation facilities must comply with this part.
- B. To further guarantee appropriate measures are in place to secure aircraft against theft and associated misuse, the Bureau Aviation Manager will ensure the TSA ACMT point scoring system is utilized to identify the TSA "Suggested Airport Security Enhancements" for each DOI aviation facility. Implementation guidance for the TSA "Suggested Airport Security Enhancements" can be found in Appendix C of TSA Information Publication A-001, <u>Security Guidelines for General Aviation Airports</u>.
  - 1. For the purposes of this policy, the TSA "Suggested Airport Security Enhancements" identified for each DOI facility through the TSA ACMT point scoring system will be considered minimum mandatory security requirements.
  - 2. Where necessary, the Department has clarified and / or supplemented the TSA "Suggested Airport Security Enhancements." These supplemental requirements will

- be considered components of the minimum mandatory TSA "Suggested Airport Security Enhancements" identified for each DOI facility through the through the TSA ACMT point scoring system. This supplemental Departmental guidance can be found in 352 DM 10, Appendix A.
- 3. The Bureau Aviation Manager may elect to increase a facility's identified minimum mandatory security requirements based upon knowledge of risk factors not considered by the ACMT and/or the findings of a supplemental risk assessment.

## C. Exceptions.

- 1. If facility ownership or control constraints preclude full implementation of the identified minimum mandatory security requirements, the Bureau Aviation Manager will immediately notify the Director, OLES, in writing.
  - a. This notification will detail the minimum mandatory security requirement(s) which cannot be implemented and the circumstances preventing implementation. A waiver of the requirement(s) may be requested. The OLES will review the submission and advise the Bureau Aviation Manager accordingly.
  - b. Pending the OLES response, the facility will comply with 352 DM 10.10, *Aircraft Physical Security Requirements*.
- 2. If funding restrictions preclude timely implementation of minimum mandatory security requirement(s), the Bureau Aviation Manager will immediately notify the Director, OLES, is writing.
  - a. This notification will detail the minimum mandatory security requirement(s) which cannot presently be implemented and provide the estimate of when the requirement(s) will be in place. A waiver of the requirements(s) may be requested. The OLES will review the submission and advise the Bureau Aviation Manger accordingly.
  - b. Pending the OLES response, the facility will comply with 352 DM 10.10, Aircraft Physical Security Requirements.

#### 11.6 AIRCRAFT PHYSICAL SECURITY REQUIREMENTS.

- A. At any time DOI owned or controlled aircraft are not directly attended by Department authorized flight or ground personnel, the aircraft will be physically secured and disabled via the dual-lock method. Examples of acceptable dual-lock devices and their conditions of use are listed under "Examples of Acceptable Locking Devices & Methods" at the end of Chapter 11.
- B. **Exceptions**. The requirements of 352 DM 10.10 do not apply to:
  - Military or government agency cooperator aircraft under DOI operational control. Such cooperator aircraft shall adhere to their department-specific aircraft security policies.
  - 2. Aircraft mechanically incapable of flight.

# 11.6 SUPPLEMENTAL REQUIREMENTS Signage

The following supplemental requirements are intended to clarify and/or broaden specific "Suggested Airport Security Enhancements" presented within TSA Information Publication A-001, Security Guidelines for General Aviation Airports.

When use of these "Suggested Airport Security Enhancements" is indicated, the supplemental requirements listed herein will be considered mandatory and in addition to those prescribed by the TSA Security Guidelines for General Aviation Airports.

Signage should be multi-lingual where appropriate.

## Lighting

All access points leading from uncontrolled areas in the AOA or other sensitive areas are to be lighted.

Lighting type and illumination levels will comply with published Illuminating Engineering Society (IES) standards but will not supersede standard aviation guidelines governing runway lighting.

## Fencing

- Install perimeter security fencing as needed to control access to the AOA and all other sensitive areas.
- Fence height and other characteristics will comply with standard FAA guidelines where appropriate. Where FAA guidelines are not available, minimum fencing characteristics will be sufficient to meet access control needs.

#### **Access Control**

All access to the AOA and other sensitive areas will be subject to access control procedures.

### ➤ General

All access points leading from uncontrolled areas into the AOA or other sensitive areas will be positively controlled to prevent unauthorized entry. Positive control methods include:

- ♦ Keyed access points, guard regulated access points, etc.
  - o Anti-Pass Back, Anti-Piggy Back, Anti-Tailgating systems or protocols should be implemented where appropriate.
- A "key control" system will be used to regulate and monitor the distribution of keys/combinations/codes/access cards/passes/badges/etc. General procedures will include:
  - The number of keys/access cards/passes/badges available will be limited and will require approval to duplicate.
  - All excess keys/access cards/passes/badges/etc. and all combinations/codes must be kept in a secure location.
  - Combinations/codes will be changed regularly.
  - A record will be kept identifying the keys/combinations/codes/access card/passes/badges/etc. distributed to specific individuals.

#### Pedestrian and Vehicular:

Visitors / Vendors / Passengers / Departmental and Facility Personnel

- All persons having unescorted or unsupervised access to the AOA or other sensitive areas will be screened against established Federal criminal and terrorist databases. Federal employees subject to prior OPM background investigation are considered to have met this requirement.
- A government issued photo I.D. will be used to verify the identification and authority of any visitor/vendor/passenger prior to granting access to the AOA or other sensitive areas.
  - An entry log will be kept documenting date/time/name and purpose of all visitors/vendors/passengers grated access.

- All visitors/passengers allowed within the AOA or other sensitive areas will be escorted by authorized facility personnel.
- An identification system will be used which clearly indicated the access privileges of all individuals within the AOA or other sensitive areas. Identification methods include:
  - Colored badges, tags, passes, decals etc.

### 11.7 DUAL-LOCK METHOD - LOCKING DEVICES AND METHODS

The dual-lock method consists of any combination of anti-theft devices on or within the aircraft, devices designed to lock aircraft flight control surfaces when not in use, or lockable devices designed to secure an aircraft to the ground.

### 11.8.1 SECURITY OF AIRCRAFT AND EQUIPMENT

Contractors are solely responsible for the security of their aircraft while under the control of the DOI. All DOI aviation contracts will include language detailing the DOI aviation security policies applicable to contractor operations and require contractor compliance with those policies.

#### 11.8.2 CONTRACT LANGUAGE

B2.2.1 The contractor is responsible for the security of their aircraft, vehicles, and associated equipment used in support of this contract unless otherwise provided herein.

## ➤ Aircraft Physical Security

The aircraft provided will be physically secured and disabled via a dual-lock method anytime the aircraft is unattended. Any combination of anti-theft devices on or within the aircraft, devices designed to lock aircraft flight control surfaces when not in use, or lockable devices designed to secure an aircraft to the ground, are acceptable, provided they are appropriate for the aircraft.

The following are examples of locking devices and methods which can be used in tandem to achieve the required "dual-lock" status. Utilization of other means of securing or disabling an aircraft are acceptable provided they achieve a level of security equal to or greater than the methods listed herein.

## **Examples of Acceptable Locking Devices and Methods:**

- Locking Hanger Door
- Keyed Magneto
- Keyed Starter Switch
- Keyed Master Power Switch
- Hidden Battery Cut-Off switch
- Hidden Start Relay Switches
- Throttle/Power Lever lock
- Mixture/Fuel Lever Lock
- Locking Fuel Cut-Off
- Locking Control Surface "Gust-Lock" (Airplane Only)
- Propeller Lock (Airplane Only)
- Propeller Chain Lock (Airplane Only)

- Propeller Cable Lock (Airplane Only)
- Locking Wheel Lock or Chock (Airplane Only)
- Locking Tie-Down Cable
- Locking "Club" type Devices for Control Yoke (Airplane Only)

## > Examples of Unacceptable locking Devices and Methods

- Locking Aircraft Doors
- Fenced or Gated Tie-Down Area

## **ADVISEMENTS**

- Operational environments and personnel safety must be considered when selecting the locking devices and methods to be used.
- Removal and/or disabling of locking devices and methods must be incorporated into preflight checklists to prevent accidental damage to aircraft.
- ♦ Locking devices and methods must be installed in a manner that precludes their inadvertent interference with in-flight operations.

## 12.0 Attachments

- 1. BLM Training Matrix
- 2. Position Description Matrix
- 3. Aviation Management Training & Qualifications.
- 4. Flight Planning Decision Matrix
- 5. Flight Request Checklist
- 6. 9400-1a Aircraft Flight Request Form
- 7. Project Aviation Safety Plan/Risk Assessment
- 8. Flight Following Worksheet
- 9. Risk Management Analysis
- 10. Aviation Documentation Matrix
- 11. Copies of existing Waivers
- 12. **SAFECOM** form



## **BLM AVIATION TRAINING MATRIX**

Article I.	BLM Aviation Training 5/19/03	Aircrew Member	Fixed-Win	Helicopter	Project & Manager	Project Manager	Aviation Dispatcher	Zone ASC Officer	State, National Managers	Flight Crew Pilot	Administrative Staff	Supervisor & Line Managers	Contractin	Agency Administrator
ArtideII.	ByPosition	emt	g fi	E	Fire	anag	)ispa	%	onal	w Pi	ıtive	· &	90	lmir
(*If involved in transport of Hazardous Materials)			ight Manage	Helicopter Flight Manager Fixed-Wing flight Manager	Project & Fire Helicopter Manager	er	atcher	Zone ASO & FO Aviation Officer	Managers	lot	Staff	ine	Contracting Officers & PI	istrator
A-101	Aviation Safety									_				
A-103	Basic Air Space													
A-104	Overview of A/C Capabilities & Limitations													
A-105	Aviation Life Support Equipment													
A-106	Aviation Mishap Reporting													
A-107	Aviation Policy and Regulations I													
A-108	Preflight Checklist & Briefing/Debriefing													
A-109	Aviation Radio Use													
A-110*	Aviation Transportation of Hazardous Materials													
A-111	Flight Payment Document													
A-112	Mission Planning and Flight Request Process													
A-113	Crash Survival													
A-201	Overview of Safety and Accident Prevention Programs													
A-202	Interagency Aviation Organizations													
A-203	Airspace Management and Coordination													
A-204	Aircraft Capabilities and Limitations													
A-205	Risk Awareness													
A-206	Aviation Acquisition/Procurement I													
A-207	Aviation Dispatching													
A-208	Aircraft Pre-Use Inspection													
A-209	Helicopter Operations													
A-210	Helicopter Field Exercise													
A-211	Aviation Planning													
A-301	Implementing Aviation Safety & Accident Prevention													
A-302	Personal Responsibility and Liability													

A-303	Human Factors in Aviation							
A-304	Aircraft Maintenance							
A-305	Risk Management							
A-306	Contract Administration							
A-307	Aviation Policy and Regulations II							
A-308	Aviation Policy and Regulations III							
A-309	Helicopter Flight Manual							
A-310	Crew Resource Management							
A-311	Aviation Program Overview for Agency Administrators							
A-312	Water Ditching and Survival							
A-313	Aviation Security							
A-	Contract Pilot Training (per agency)							
A-401R	Aircraft Dispatcher Refresher Training							
A-402R	Aircrew Refresher Training							
A-403R	Fixed-Wing Manager							
A-406R	Helicopter Managers Workshop (Every 2 Years)							
A-407R	Projector Managers Refresher Workshop							
A-409R	Unit Aviation Manager Refresher Workshop							
A-410R	Aviation Management/tech Specialist Refresher							

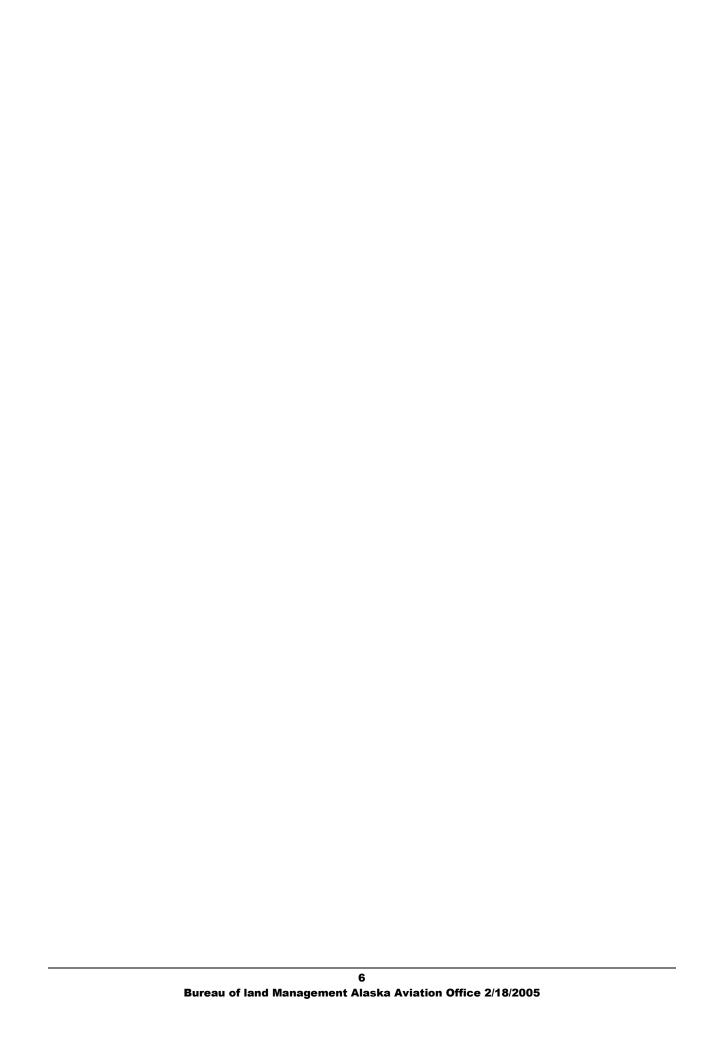
## POSTION DESCRIPTION MATRIX

Passenger	A person being transported, by aircraft, on a flight and is briefed by a pilot or Flight Manager or on a flight with a Flight Manager.
Aircrew Member	A person working in or around aircraft and is essential to ensure the safety and successful outcome of the mission.
Fixed-wing Flight Manager	A BLM representative who works jointly with the Fixed-wing pilot-in-command to ensure a safe, efficient flight for BLM employees.
Helicopter Flight Manager	A BLM representative who works jointly with the helicopter pilot-in-command to ensure a safe, efficient flight for BLM employees. (Short term – less than tw0 (2) days)
Project & Fire Helicopter Manager	A person assigned to a project (non-fire) helicopter responsible for coordinating, scheduling, managing and supervising helicopter operations.  See IHOG, Chapter 2 for incident and non-fire qualification and training standards.
Project Manager	A person, who plans, organizes, and manages the aviation operations of the project using one or more aircraft simultaneously.
Aviation Dispatcher	A dispatcher who receives, process and places orders for aircraft, provides flight following and other aviation support services.
Zone Aviation Manager	Individual with aviation management responsibilities for a local unit and serves as the focal point for aviation management.
State & National Managers	Individual responsible for aviation operations within a geographical area defined by the agency.
Flight Crew – Pilot	A pilot or flight crew person assigned to duty in an aircraft during a flight and who holds a valid FAA Airman's Certificate and Airman's Medical Certificate.
Supervisor & Managers	Those who supervise employees who use aircraft to accomplish agency programs, first and second line supervisors.
Contracting Project Inspectors	A person responsible for compliance with aircraft contract provisions and specifications with authority to initiate and sign correspondence.
Agency Administrator	A line officer responsible and accountable for using aviation resources to accomplish agency program objectives.

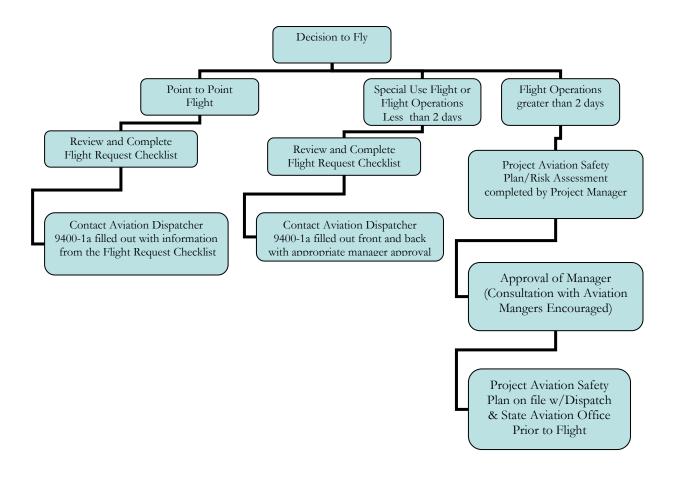


## AVIATION MANAGEMENT TRAINING & QUALIFICATIONS

POSITION	MINIMUM TRAINING REQUIRED	CURRENCY	REMARKS
Aircrew	Safety Briefing B-3	Every Flight Every 3 years	Briefing to be specific to airplane or helicopter as needed. B3 will satisfy for both categories of aircraft.
Passenger	Aircraft Preflight Safety Briefing (B1, B2 or B3 is recommended)	Every Flight	
Government Pilots	Aviation Management Seminar (M1)	None	
	or Interagency Aviation Mgt & Safety plus Accident Prevention Seminar (M7) and DOI Flightcrew Workshop (M8)	None Every 2 years	
Supervisors (Supervise programs engaged in recurring aviation activity)	Aviation Training for Supervisors (M3) or Interagency Aviation Mgt & Safety	Every 3 years	Aviation Management Seminar (M1) is also recommended
Line Managers (Manage programs utilizing aviation)	Aviation Overview for Managers (M2) or Aviation Management Seminar (M1)	Every 3 years	Accident Prevention Seminar (M7) is also recommended
COR/COTR/PI	Aircraft Contract Administration (M4)	Every 3 years	
Field Aviation Managers	Aviation Management Seminar (M1) or Interagency Aviation Mgt & Safety	Every 3 years	Accident Prevention Seminar (M7) is also recommended
State Aviation Manager	Aviation Management Seminar (M1) or Interagency Aviation Mgt & Safety PLUS: Accident Prevention Seminar (M7)	Every 3 years	Senior Level Aviation Management is also recommended
Interagency Aviation Trainer (Basic)	Train The Trainer (M5) and Aviation Trainer Currency	None Every 3 years	Aviation Management Seminar (M1) is also recommended
Interagency Aviation Trainer (Supervisory	Above PLUS: Aviation Management Seminar (M1)	Every 3 years	Accident Prevention Seminar (M7) is also recommended



## Flight Planning Decision Matrix





## CHECKLIST AIRCRAFT REQUEST

There are a number of pieces of information you need to relay to the vendor or the appropriate dispatch office at this time. These include:

- 1. The date and time of the flight.
- 2. The itinerary (routing) of the flight.
- 3. The number of insured passenger seats needed.
- 4. The weight and bulk of any cargo to be hauled. Describe any cargo with unusual dimensions and any hazmat.
- 5. Any unusual flying activities (e. g. gravel bar landings) or special-use requirements. If the flight will be special-use, ensure that the special-use plan has been approved.
- 6. Any need for a copilot or a second flight crew.
- 7. The BLM charge code and the OAS billee code for the flight.
- 8. The type of charter needed: whether wet or dry and whether point-to-point or guarantee.
- 9. Whether BLM or the vendor is providing the pilot's subsistence (for guarantee-rate flights only).
- 10. Where to report for duty at the start of the mission.
- 11. The procedures you plan to use for flight-following.
- 12. The name of the Flight Manager.
- 13. Any need for special fuel caches along the flight route.
- 14. If the aircraft is a helicopter being hired for fire work, it must be equipped with a 9600 radio (and usually should be wired for a water bucket).

The phone number for the AICC Aircraft desk (907-356-5681, 907-356-5682 or 800-237-3646) The phone number South Zone Dispatch (907-267-1360, 907-267-1378 or 800-478-1263)



# Attachment 6 SPECIAL USE FLIGHT REQUREST FORM 9400-1a Next Page



Form 94 (May 19			UNITED STATES DEPARTMENT OF THE INTERIOR							Cha	nge#									
								OF LAND M <b>IGHT REQ</b> I								FAA N#				
1. Initia	l request	inform	ation										de (OAS A	C only	Flight Schedule No	Flight Schedule No,		PAX Seats		
Initial Date/Ti		Γο/Fre	om		Phone N	lumber										Make/Model	Make/Model			
Date/11	iiic															Color	Color			
Check	one:		Point-to	-Poir	nt Flight	Mi	ssion Flight	Desired A	/C _	Helico	pter	Airplane	1			Vendor				
Mission	Objective	s/Spec	ial Need	s:												Phone No.				
																Pilot(s)				
2. Passe	enger/Carş	go Info				nief of Part												_		
NAME	/TYPE O	E CAR	C	BS or U ft	О	ROJECT RDER/ UEST NO	DEP'	_	RETU TO		NAI	ME/TYPE	OF CARO	GO	LBS or CU FT	PROJECT ORDER/ REQUEST NO.	DEPT ARPT	DEST ARPT	RETURN TO	
1 17 111112/	THEO	1 0211	.00		КШО	CLOTIVO	•													
3. Fligh	t Itinerary	(For N	/lission-	Гуре	flights, I	Provide Poi	1	arture/Arrival	and At	ttach Ma	ap with D	Detailed Flig	ht Route a	nd Known	Hazards	Indicated)				
DEI	PART WI	ГН			ART FR	OM	Enroute	ARRIVE AT DROP OFF						KEY POINTS			INFO			
Date	No. Pax.	Lbs.	Airport	/ Pia	ETD	ADT	ETE	Airport/Place ETA ATA No. Pax Lbs.				Drop-Of	Drop-Off Points, Refueling Stops, Flight Check-ins, Pickup Points,				To/From			
							_				<u> </u>			1						
														†						
							_													
4. Fligh	t Followin	ıg						5. Method o	of Reso	urce Tra	acking:	1		II.	7. A	dministrative	8. Re	eview (if A	Applicable)	
[]	FAA IF	[]	Satellite					[] Phone		[]	Radio				T	ype of Payment Documen	ıt [1	Harard A	nalwaia	
[] FAA	VFR Wi	th Che	ck-in Ev	ery _	Mir	nutes to		[] To Scheo	duling I	Dispatch	ner @			<u>-</u>	[	[] OAS-23 or [] OAS 2 [] Hazard An			ed	
[]	FAA or	[]	Agency					(Phone Number) [] Prior to Takeoff [] Each Stop En route [] Arrival at Destination						]	[] FS 6500-12 [] Dispatch/ Mgr. Che			Aviation		
	ncy VFR V uency(ies):		neck-In v	ia ra	dio Evei	ry Min	utes	[] To:						Other:  Route Document To:  [] Other:			CKIIST			
	. ,										·				9.	Close-out Closed by Date/Tin	7: ne:			

### HAZARD ANALYSIS AND DISPATCH/AVIATION MANAGER CHECKLIST

1. MISSION FLIGHT HAZARD ANALYSIS (Fire flights exempt identified on flight itinerary map, and will be reviewed with Pilot and	provided a pre-approved plan is in place). The following potential Chief-of-Party prior to flight:	hazards in the area of operations have been checked, have been			
[] Military Training Routes (MTRs) or Special-Use Airspace (MOAs, Restricted Areas, etc.)	[] Towers and bridges	[] High elevations, temperatures, and weights:			
[] Areas of high-density air traffic (airports); Commercial or other aircraft	[] Other aerial obstructions:  [] Pilot flight time/duty day limitations and daylight/darkness	MAX LANDING ELEV (MSI.)  MIN FLIGHT ALTITUDE AGL			
[] Wires/transmission lines; wires along rivers or streams or across canyons	factors SUNRISE	[] Transport of hazardous materials  [] Other: Employee working in wet conditions. Rubber boots			
[] Weather factor: wind, thunderstorms, etc.	SUNSET	approved per waiver 9400 (FA-140) dated 5/23/97.			
	[] Limited flight following communications				
II. DISPATCHER/AVIATION N		III. APPROVALS			
[] Pilot and aircraft carding checked with source list and vendor, carding meets requirements	[] Means of flight following and resource tracking requirements have been identified	NOTE: Reference Handbook 9420 for approval(s) required.			
[] <b>OR</b> Necessary approvals have been obtained for use of uncarded cooperator, military, or other-government agency aircraft and pilots	[] Flight following has been arranged with another unit if flight crosses jurisdictional boundaries and communications cannot be maintained	A. MISSION FLIGHT: Hazard Analysis Performed By:			
[] Check with vendor that an aircraft with sufficient capability to perform mission safely has been scheduled	[] Flight hazard maps have been supplied to Chief-of-Party for non-fire low-level missions	(Chief-of-Party Signature)  B. MISSION FLIGHTS: Hazard Analysis Reviewed By:			
[] Qualified Aircraft Chief-of-Party has been assigned to the flight (noted on reverse)	[] Procedures for deconfliction of Military Training Routes and Special-Use Airspace have been taken	(Dispatcher or Aviation Manager Signature Required)			
[] All DOI passengers have received required aircraft safety training	[] Chief-of-Party is aware of PPE requirements	C. IF Non-Fire, One-Time (Non-Recurring), Special-Use Mission, Signature of Line Manager is Required**:			
OR Aviation manager will present detailed safety briefing prior	[] Cost analysis has been completed and is attached	9			
to departure	[] Other/Remarks:	(Line Manager Signature) (Date)			
[] Bureau Aircraft Chief-of-Party will be furnished with Chief-of Party/Pilot checklist and is awar of its use		D. This Flight is Approved By:			
		(Authorized Signature) (Date)			
		**For recurring Special-Use Mission, signature is required on Special-Use Air Safety Plan, and not required here.			

## PROJECT AVIATION PLAN AND RISK ASSESSMENT (Fire Missions are Exempt)

Special Use Flight Safety Plan (Instructions)
For Flights Greater than Two Days

**PROJECT NAME AND OBJECTIVES:** A Brief description of the project and its objectives.

**JUSTIFICATION:** Indicate why the project will require the use of aircraft in Special Use Flight conditions/environments and list the most practical alternatives for completion of the project.

**PROJECT DATE(S):** Dates project will begin and end. These may be approximate, since exact dates of flights may not be known at the beginning of the year.

**LOCATION:** Enter descriptive location and include a map clearly showing areas where flights will be made; aerial hazards must be clearly indicated.

**PROJECTED COST OF AVIATION RESOURCES:** Enter cost coding, projected flight hours with cost, projected misc. expenses (overnight charges, service truck mileage, etc.), and total cost of project.

<u>AIRCRAFT:</u> If known, identify vendors that own aircraft anticipated to be used, registration number, aircraft type, date of aircraft data card expiration, and missions for which aircraft is approved.

**PILOT:** If known, identify pilot(s), type of aircraft qualified in, type of missions qualified for, and pilot card expiration date. Also, list specific experience or skills desired. (ex. – experience w/N. Slope operations, carded for low level flight)

<u>PARTICIPANTS:</u> List individuals involved in flights, their respective qualifications (Helicopter Manager, Project Flight Manager if deemed non-complex, Passenger, etc.), dates of last aviation training, and include individuals' project responsibilities. Attach organizational chart if applicable.

**FLIGHT FOLLOWING:** Identify the procedures to be used. Identify authority if additional local on-scene project flight following can be instituted. Attach communications plan with assigned frequencies if applicable.

Radio Frequencies						
Simplex FM	Receive:	Trat	nsmit:	Tone:		
Repeat FM	Receive:	Tran	nsmit:	Tone:		
Air-to-Ground – FM	Receive:	Tran	nsmit:	Tone:		
Air-to-Ground – (Secondary) – FM	Receive:	Trat	nsmit:	Tone:		
Long Distance Flight Following – FM	Receive:	Tran	nsmit:	Tone:		
Local Flight Following – AM	Receive:	Trat	nsmit:	Tone:		
Air-to-Air – AM	Receive:	Trat	nsmit:	Tone:		
Flight Following and Tracking	By Phone	Rad	io:	Request #		
FAA VFR with 60 Minute Check In	FAA IFR:	Age	ncy:	Flight#		
Scheduling Dispatch Phone:	Contact::					
	Notes:					
Destination Dispatch Phone:	Contact:					
	Notes:					
Aircraft Home Base Location:				<u> </u>		
Ferry Start Time:		Ferry Ending Time:				
Ferry Flight Following:		Agency:	F	AA:		

**AERIAL HAZARD ANALYSIS:** The project Aviation Manager develops an aerial hazard analysis with attached map. Flights made in confined areas (e.g. deep, narrow canyons) required that a prior ground and/or aerial survey of hazards be made. A copy of the hazard map shall be provided to the pilot prior to any project flights.

**PROTECTIVE CLOTHING/EQUIPMENT:** Identify the protective equipment and clothing necessary for the particular operation. Survival equipment (extra water, floatation devices, sleeping bags, etc.) beyond the normal PPE complement that may be require.

**LOAD CALCULATIONS AND WEIGHT AND BALANCE:** The pilot is responsible for the accurate completion of load calculations. Trained aviation personnel shall ensure that aircraft scheduled are capable of performing the mission(s) safely and within the capabilities of the aircraft selected. The helicopter Manager shall ensure that manifests and load calculation/weight and balance calculations are completed properly.

<u>RISK ASSESSMENT:</u> Project Manager will complete the "Risk Analysis Worksheet" and attach to the Special Use Flight Safety Plan.

AIRSPACE COORDINATION: Identify if projected flight paths/project area involves military Special Use Airspace and/or Military Training Routes (MTR's), or Low Altitude Tactical Navigational Areas (LATN). Current DOD Area Planning AP/1B charts, NOAA Aeronautical Sectional, and any DOD/BLM LOA's/MOU's are requisite ingredients of this planning process. Timely advance notice is required for the Military to plan/schedule their activities around BLM "Special Use" activities. If advance planning cannot be accomplished then "Special Use" operations will be scheduled when military routes are not hot. This will require close coordination between the Project Aviation Manager, Field Office Manager, and respective Dispatch Center. Mission planning involving Military Airspace shall include "Risk Management Considerations."

<u>UNIMPROVED LANDING SITES:</u> If mission profile includes landing at unspecified, unimproved landing sites a fully qualified Helicopter Manager, Project Flight Manager (if mission deemed non-complex in nature ref: IHOG Chapter 2, Chart 2-3) shall supervise the loading/unloading of passengers if applicable.

**STANDARD OPERATION PROCEDURES:** Shall be in accordance with 350 – 354 Departmental Manual, 9400 BLM Aviation Policy (presently in draft format), and Interagency Helicopter Operations Guide(IHOG).

**PREWORK MEETING/PRE-OPERATIONAL SAFETY BRIEFING:** Identify participants, location and time(s) if deemed required.

#### **SIGNATURES:**

I reviewed the contents of this Special Use Flight Plan and Risk Analysis and find that it conforms to existing BLM policies and identifies the necessary precautions that flights of this nature must address. No Hazard for this project is greater than a Medium Risk as Identified in the Risk Analysis.

Prepared By:	
Project Leader	Date
Reviewed By:	
Reviewed By: Line Supervisor	Date
The Risk Analysis has identified that there is a <b>High Risk to Empl</b> contents of this Special Use Flight Plan and Risk Analysis and find tidentifies the necessary precautions that flights of this nature must a	that it conforms to existing BLM policies and
Reviewed By:	
Field Office Manager	Date
Reviewed By:	
State Aviation Manager	Date
The Risk Analysis has identified that there is an <b>Extremely High R</b> reviewed the contents of this Special Use Flight Plan and Risk Analypolicies and identifies the necessary precautions that flights of this necessary precautions.	ysis and find that it conforms to existing BLM
Reviewed By:	<del></del>
State Director/Associate State Director	Date

## SPECIAL USE FLIGHT SAFETY PLAN

For Flights Greater than Two Days (Fire Missions are Exempt) (To be completed by Project Manager)

PROJECT NAME & OBJECTIVES:			
JUSTIFICATION:			
Project Date(s):			
LOCATION:			
PROJECTED COST OF AVIATION RESOLUTION COS	URCES: t Code:		
Desired AIRCRAFT:			
DESIRED PILOT QUALIFICATIONS:			
PARTICIPANTS:			
METHOD OF FLIGHT FOLLOWING:			
Radio Frequencies			
Simplex FM	Receive:	Transmit:	Tone:
Repeat FM	Receive:	Transmit:	Tone:
Air-to-Ground – FM	Receive:	Transmit:	Tone:
Air-to-Ground – (Secondary) – FM	Receive:	Transmit:	Tone:
Long Distance Flight Following – FM	Receive:	Transmit:	Tone:
Local Flight Following – AM	Receive:	Transmit:	Tone:
Air-to-Air – AM	Receive:	Transmit:	Tone:

#### **AERIAL HAZARD ANALYSIS:**

Ferry Flight Following:

Ferry Start Time:

Flight Following and Tracking

**Scheduling Dispatch Phone:** 

**Destination Dispatch Phone:** 

Aircraft Home Base Location:

FAA VFR with 60 Minute Check In

By Phone

FAA IFR:

Contact::
Notes:

Contact: Notes: Radio:

Ferry Ending Time:

Agency:

Agency:

Request #

Flight#

FAA:

PROTECTIVE CLOTHING/ EQUIPMENT:	
LOAD CALCULATIONS AND WEIGHT AND BALANCE:	
RISK ANALYSIS:	
Airspace Coordination:	
Unimproved Landing Sites:	
STANDARD OPERATING PROCEDURES:	
Prework Meeting/Pre-Operational Safety Briefing	<u>3:</u>
SIGNATURES:  I reviewed the contents of this Special Use Flight Plan and Risk policies and identifies the necessary precautions that flights of the greater than a Medium Risk as Identified in the Risk Analysis.	is nature must address. No Hazard for this project is
Prepared By:Project Leader	
Project Leader	Date
Reviewed By:Line Supervisor	Date
The Risk Analysis has identified that there is a <b>High Risk to En</b> contents of this Special Use Flight Plan and Risk Analysis and finidentifies the necessary precautions that flights of this nature mu	nd that it conforms to existing BLM policies and
Reviewed By:Field Office Manager	Date
Reviewed By:State Aviation Manager	Date
The Risk Analysis has identified that there is an <b>Extremely Hig</b> reviewed the contents of this Special Use Flight Plan and Risk A policies and identifies the necessary precautions that flights of th	nalysis and find that it conforms to existing BLM
Reviewed By:	
State Director/Associate State Director	Date

# FLIGHT FOLLOWING WORKSHEET/AGREEMENT AGREEMENT FOR FLIGHT FOLLOWING

## Flight Information

Aircraft User/Flight Manager/Chief of Party
Aircraft N# - make and model
Type of mission
Date of flight
Check off whichever applies and write in any further info. In space provided:
Check in method: Landline Iridium (list number): radio  Call before departure
Call upon arrival
File with FAA
Flight follows with Appropriate Dispatch (907)
Flight follows locally
Flight follow other (please list):
Check-ins during flight/project operations (please list times/info):
Special instructions and/or any further information, please list:
This document constitutes an exception to required flight following reporting each hour as described in 351 DM 1.4C(b). The signature below signifies an agreement for flight following between the aircraft user and a dispatch office. If one of the agreed upon check-in times are missed, an aircraft will be dispatched one hour after said time for search and rescue. The office of the aircraft user will bear the costs of the search and rescue aircraft.
Signed and agreed to by:
Aircraft User/Flight Manager/Chief of Party
Dispatch center with flight following responsibility

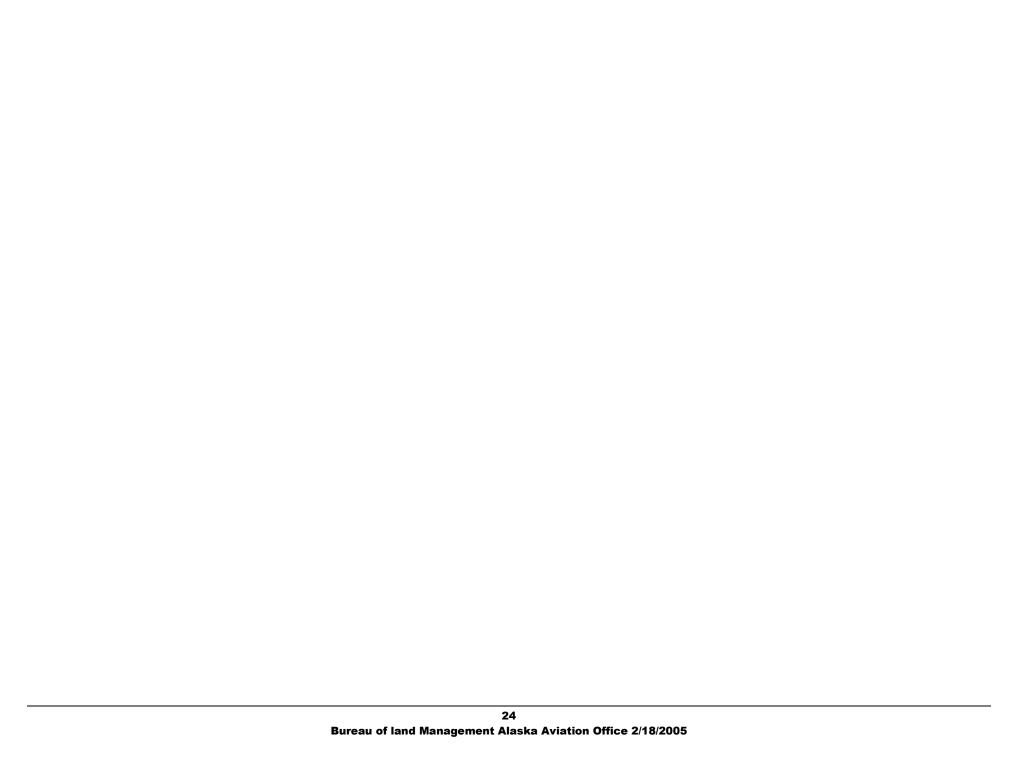


## RISK MANAGEMENT ANALYSIS

	OR DESCRIPTION OF THE PERSON		HAZARD PROBABLILITY											
			Frequent	Likely	Occasional	Seldom	Unlikely							
	<u> </u>		A	В	С	D	E							
	Catastrophic	I	Extremely											
E	Critical	II	High		IGH									
	Marginal	III		Me	L	Low								
T	Negligible	IV												
	Severity			Effect										
I.	CATASTROPH	IC	Death or perm	nanent disability,	system loss, major pr	roperty damage								
II.	CRITICAL			Permanent partial disability, temporary total disability in excess of 3 months major system damage, significant property damage										
III.	MARGINAL			Minor injury, lost workday accident, compensable injury/illness, minor system damage, minor property damage										
IV.	NEGLIGIBLE		First aid or mi	First aid or minor medical treatment, minor system damage										
			Н	azard Probab	oility									
A.	FREQUENT Individual worker/I All employees expo		tem inventory	Occurs often	in career/equipment	t service life								
В.	<b>LIKELY</b> Individual worker/I All employees expo		tem inventory	Occurs severa	ul times in career/equently	uipment service l	ife							
C.	OCCASIONAL Individual worker/I All employees expos		tem inventory		ll times in career/equically; expect to occ									
D.	SELDOM Individual worker/I All employees expos		tem inventory		occurrence in career te of occurrence; exprvice life									
E.	UNLIKELY Individual worker/I All employees expos		tem inventor		vill not occur in care	1 1								
NO	<b>TE:</b> Experience and	d expos	ture affects probabi	lity of occurrence	:									
			Manageme	ent Acceptance										
EXTREMELY HIGH RISK State Director/Associate State Director														
	GH RISK				Field Office Manag	ger								
	DIUM RISK				Branch Chief									
LO	W RISK				Line Supervisor									



Risk Management Work Sheet A. Mission or Task: B. Date/Time Group C. Date Prepared: Begin: End: D. Prepared By: (Rank, Last Name, Duty Position) Н.. Identify Hazard Initial Develop Controls How To Implement Controls How To Supervise Residual Risk Risk K. Determine overall mission/task risk level after controls are implemented (Circle One) LOW (L) MODERATE (M) HIGH (H) EXTREMELY HIGH (E) Crew Leader: Crew Leader: Incident Commander: Reduce Risks



## **Aviation Documentation Matrix**

### AVIATION DOCUMENTATION MATRIX

DOCUMENT	PURPOSE	RESPONSIBLE	FREQ	ACTION/REMARKS
9400-1a Flight Request/Schedule	-Initiates all flights  -Documents aircraft, pilot and vendor info, itinerary, charge code, passengers and weights, etc.	-Requesting individual initiates form -Supervisor of requestor approves flight with signature -Aviation Mgr or Dispatcher completes form; procures aircraft	-At least 3 days prior to any flight -Dispatch may be able to process in less than three days depending on work load and availability of aircraft -Aircraft Resource Order may be used for Fire flights	-Copy given to Flight Manager and/or receiving or enroute Dispatch -Retain copy in local file for two years
9400-2 Special Use Flight Safety Plan	-Identify aviation hazards for Special Use flights  -Perform risk assessment and analysis; pre-plan Special Use flights to mitigate risks  -Approve essential passengers	-Project Manger completes -FO Line Manager and State Aviation Manager approves with signature	-At least 3 days prior to Special Use flight	-Plan reviewed with pilot, passengers and ground crew -Reverse of 9400-1a may be used on simple Special Use flights -Retain copy in local file for two years
OAS-110 Travel Cost Analysis	-Determine most cost effective mode of transportation for administrative/resource flights -Required for SES flights to satisfy OMB Circular A- 126	-Local Aviation Mgr or Dispatcher	-At least 10 days prior to flight -Every SES flight (except "required use" or "mission" flights with SES pax)	-Fax to DOI Solicitor Office for SES flight approval -Retain copy in local files for two years
GSA 3641 Senior Federal Travel Report	-Report all Senior Federal employee (SES) travel in Government aircraft -Required by OMB A-126	-Local Aviation Mgr or Dispatcher	-Every SES flight -Consolidate and report every 6 months for semi- annual periods:	-Field Office Aviation Mgr submit to State Aviation Manager -SAM consolidates, submits to NAO -Retain copies at local level
OAS-106 Aviation Course Presentation Record	-Document each Aviation training session presented; date, time, location, instructors and trainees	-Local Aviation Manager or Course Coordinator	-Course completion	-Send to OAS if IAT instructed -Retain copy in files

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Aviation Training and Qualification Record	-Document individual employee aviation training completed and aviation position qualifications -Used for review/approval and employee development	-Employee and Supervisors.	-Update as necessary -End of fiscal year or prior to field season	-Local mgr or supervisor reviews with employee; approves with signature  -Must be supported with training and experience records  -Retain copies locally
OAS-34 "SAFECOM" Aviation Incident Report	-Document any aviation hazard, maintenance deficiency, incident or unsafe act -Identify trends, areas of concern, training needs, etc. to management	-Pilots, aircraft managers, passengers, ground personnel, dispatchers, etc.  -Anyone who observes aviation hazards, incidents or unsafe practices	-ASAP or within 48 hours of each occurrence	-Local Aviation Managers should follow-up immediately -Submit to OAS Safety by fax or electronic -Submit copy to State Aviation Manager -Retain copy locally
Aviation Management Plan	-Provides a reference for BLM employees, aviation managers and other agency personnel  -Outlines State and Field Office aviation organization, procedures, accident prevention measures, etc.	-Field Office Aviation Manager prepares for jurisdictional area -State Aviation Manager prepares statewide plan	-Update annually	-Serves as supplement to BLM 9400 manual; should not be more restrictive  -Content, length and level of detail will be commensurate with local aviation activity  -Keep as reference
Plan Incident/Accident Response	-Pre-plan emergency procedures and contacts in the event of aircraft mishap, accident or overdue aircraft	-Field Office Aviation Manager and Dispatch prepare for their area of responsibility	-Update as necessary <u>and</u> annually	-Post in Dispatch, front desk and airbase offices
Aerial Hazard Map	-Visually display aerial hazards for flights or aviation projects -MTRs, MOAs, towers, powerlines, cables, airstrips, heliports, etc.	-Field Office Aviation Manager and Dispatch prepare for their jurisdictional area -Use information from NOAA Sectionals, AP1B, etc.	-Update as needed and annually	-Display in Dispatch and airbase offices  -Review with pilots and aircrews prior to flight  -Attach "site specific" aerial hazard maps to Special Use Plans

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Airbase & Hazard Database	-Document location and info database on the following: Airports, airstrips Heliports, helispots Dipsites Refueling sites Aerial Hazards EtcIn digitized form may be used with GIS to generate hazard maps, etc.	-Developed at Field Office level by Aviation Manager, Dispatchers, Aircraft Managers for their jurisdictional area -State Aviation Manager to consolidate into statewide database	-Update continuously and annually	-Locations of all full-time and temporary operational sites by Lat/Long coordinates -Info on each site:  Size, layout, access Elevation Capabilities & limitations Local Hazards Ownership, facilities, etc.
Aviation Statistical Report	-Provide management with operational and cost summary of aviation activity  -Categorize activity by:  Subactivity Contract/ARA/Cooperator Rotor vs. Fixed Wing	-Field Office Aviation Manager and Dispatch prepare for jurisdictional area -State Aviation Manager prepares State Office report and consolidates with FO reports to compile statewide summary	-Prepare at end of fiscal year for period: Oct 1 - Sept 30 -FO submit to SAM by mid- Nov	-Should include Incident/Accident Summary, Aviation Training Summary and other aviation accomplishments in the FY -SAM compiles statewide report -Retain in historical files
OAS-20 Request for Rental Services	-To request a specific vendor/aircraft to be secured and approved on an OAS Aircraft Rental Agreement (ARA). For recurring needs where cost of each use will be less than \$25K	-Local Aviation Manager identifies a bona fide need. Completes form; sends to State Aviation Manager -SAM reviews; sends to NAO	-When a need is identified and local vendor is available but not secured by current ARA	-National Aviation Office reviews; if approved, sends to OAS for action -OAS inspection/carding may take weeks -Retain copies in local files
OAS-13 Request for Contract Services	-Initiates exclusive use or on-call contracting process when aircraft are needed for a specific period and cost is expected to exceed \$25K. Identifies number of days, designated base, estimated cost, etc. Verifies funding.	-State Aviation Manager prepares with requestor input  -OAS uses to develop contract specifications and solicitation	-Submit at least six months prior to time services are needed	-SAM submits to NAO; NAO submits to OAS -Must be accompanied by OAS-13A or 13H
OAS-13A & OAS- 13H Request for Contract Services Supplement (Airplane or Helicopter)	-Supplements the OAS-13. Describes aircraft requirements, specifications, equipment and services needed  -OAS utilizes to prepare contract specifications and solicitation	-Completed by local Aviation Manager -Reviewed by State Aviation Manager	-Submit at least six months prior to time services are needed	-Field Office prepares and submits to State Aviation Manager. SAM reviews and sends to OAS.  -Fire Aircraft requests are sent to NAO/OAS.  -Retain copies in local files

DOCUMENT	PURPOSE	RESPONSIBLE	FREQ	ACTION/REMARKS
Contract Daily Diary	-Document daily activities and facts concerning contracted aircraft:  Vendor & agency personnel assigned Flight activities & equipment use Maintenance or noncompliance Significant events	-Contract Project Inspectors (PI)/Aircraft Managers	-Complete daily during contract period -Submit copies to SAM/COR every two weeks	-May be used if contract disputes or litigation occurs  -May be used for ARA or on-call aircraft for duration of project  -Retain copies in local contract files
OAS-23 Aircraft Use Report	-Serves as flight invoice; documents aircraft use, pay items, charge codes and authorization  -Used for ARA, CWN, Contract and some cooperator flights  -Aircraft vendors are paid from this form	-Pilots, Flight Managers and/or Aircraft Managers complete this form together  -Reviewed and signed by local Aviation Manager  -OAS reviews and processes; makes payment to vendors	-Complete daily -Submit at time of release or every two weeks for ARA and CWN -Submit every two weeks for Exclusive Use Contract	-Blue copy to pilot/vendor -Yellow copy retained at local office -White copy (original) sent to OAS
Daily Cost/Use Summary	-Summarizes cost and use statistics for a specific aircraft for one operational period (day). Used by Incident or local management or users to track costs and analyze use.	-Aircraft Managers/Project Inspectors	-Complete daily	-Aircraft Managers/PI submit to Incident Airbase Mgr/Air Ops personnel or to local FMO. -Retain copies in local contract, project or flight files
OAS-72 Evaluation Report on Contract Performance	-Comprehensive evaluation of contractor personnel, aircraft and equipment for the exclusive use period -Evaluation should be supported by Daily Diaries, OAS-23s and other documentation -May be used in awarding future contracts	-Aircraft Managers, Project Inspectors (PI) at the field level; State Aviation Manager (COR) provides input	-At the end of each exclusive use period (yearly)	-PI sends evaluation to State Aviation Manager (COR); COR submits to Contracting Officer (CO; OAS) -Retain copies in local contract files

## List of Existing Waivers

- ➤ Waiver for Exemption from 351 DM1 Use of Rubber Boots on Special Use Flights. (05/1997)
- ➤ Use of Volunteers on Special-Use Flights (06/2000)
- Flight Helmets Requirements (Leadplane and Smokejumper Operations) (05/1998)



**SAFECOM** Form